

=> FIL REG

FILE 'REGISTRY' ENTERED AT 14:56:25 ON 29 DEC 2010  
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=> D HIS NOFILE

FILE 'HCAPLUS' ENTERED AT 14:32:27 ON 29 DEC 2010  
E US2006-597904/APPS  
L1 1 SEA US2006-597904/AP  
E MOREAU WAYNE M/AU  
L2 128 SEA ("MOREAU WAYNE"/AU OR "MOREAU WAYNE M"/AU OR "MOREAU WAYNE  
MARTIN"/AU)  
E MOREAU W/AU  
L3 18 SEA ("MOREAU W"/AU OR "MOREAU W M"/AU OR "MOREAU W R"/AU)  
E ANGELOPOULOS MARIE/AU  
L4 178 SEA ("ANGELOPOULOS MARI"/AU OR "ANGELOPOULOS MARIA"/AU OR  
"ANGELOPOULOS MARIE"/AU)  
E ANGELOPOULOS M/AU  
L5 49 SEA ("ANGELOPOULOS M"/AU OR "ANGELOPOULOS M G"/AU)  
E HUANG WU SONG/AU  
L6 136 SEA ("HUANG WU SONG"/AU OR "HUANG WU SONG S"/AU)  
E HUANG W/AU  
L7 1471 SEA ("HUANG W"/AU OR "HUANG W B"/AU OR "HUANG W C"/AU OR  
"HUANG W D"/AU OR "HUANG W E"/AU OR "HUANG W ERIC"/AU OR  
"HUANG W F"/AU OR "HUANG W G"/AU OR "HUANG W H"/AU OR "HUANG W  
"HUANG W W"/AU OR "HUANG W W H"/AU OR "HUANG W X"/AU OR "HUANG  
W Y"/AU OR "HUANG W Z"/AU)  
E MEDEIROS DAVID R/AU  
L8 81 SEA ("MEDEIROS DAVID R"/AU OR "MEDEIROS DAVID ROBERT"/AU)  
E MEDEIROS D/AU  
L9 43 SEA ("MEDEIROS D"/AU OR "MEDEIROS D A"/AU OR "MEDEIROS D B  
A"/AU OR "MEDEIROS D C"/AU OR "MEDEIROS D J"/AU OR "MEDEIROS D  
M"/AU OR "MEDEIROS D R"/AU OR "MEDEIROS D S"/AU OR "MEDEIROS D  
W"/AU)  
E PETRILLO KAREN E/AU  
L10 73 SEA ("PETRILLO KAREN"/AU OR "PETRILLO KAREN E"/AU OR "PETRILLO  
KAREN ELIZABETH"/AU)  
E PETRILLO K/AU  
L11 20 SEA ("PETRILLO K"/AU OR "PETRILLO K E"/AU)  
L12 2045 SEA (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR  
L11)  
E INTERNATIONAL BUSINESS MACHINES/CO  
L13 19113 SEA ("INTERNATIONAL BUSINESS MACHINE CORP"+ALL/CO,CS,PA OR  
"INTERNATIONAL BUSINESS MACHINE CORPORATION"+ALL/CO,CS,PA OR  
"INTERNATIONAL BUSINESS MACHINES"+ALL/CO,CS,PA OR "INTERNATIONA  
"INTERNATIONAL BUSINESS REPROCESSING BRANCH COGEMA"+ALL/CO,CS,P  
A OR "INTERNATIONAL BUSINESS TECHNOL  
E IBM/CO  
L14 46208 SEA (IBM+ALL/CO,CS,PA OR "IBM AALMADEN RESEARCH CENTER"+ALL/CO,  
CS,PA OR "IBM ADSTAR"+ALL/CO,CS,PA OR "IBM ADV STORAGE AND  
RETRIEVAL"+ALL/CO,CS,PA OR "IBM ADV SYST DEV DIV LAB"+ALL/CO,CS  
B H"+ALL/CO,CS,PA OR "IBM DEUTSCHLAND"+ALL/CO,CS,PA OR "IBM  
DEUTSCHL  
L15 46277 SEA L13 OR L14

SEL L1 1- RN

FILE 'REGISTRY' ENTERED AT 14:39:39 ON 29 DEC 2010

L16 11 SEA (102-71-6/BI OR 103-84-4/BI OR 11105-01-4/BI OR 1122-58-3/B  
I OR 122-39-4/BI OR 134-32-7/BI OR 25583-20-4/BI OR 39350-32-8/  
BI OR 48152-09-6/BI OR 7440-47-3/BI OR 91-59-8/BI)  
E TRIETHANOLAMINE/CN

L17 1 SEA TRIETHANOLAMINE/CN  
E N,N-DIMETHYLAMINOPYRIDINE/CN  
E 4-PYRIDINAMINE, N,N-DIMETHYL-/CN

L18 1 SEA "4-PYRIDINAMINE, N,N-DIMETHYL-"/CN

FILE 'HCAPLUS' ENTERED AT 14:48:53 ON 29 DEC 2010

L19 26889 SEA L17  
L20 5267 SEA L18  
L21 38 SEA L19 AND L20  
L22 1 SEA L21 AND (L12 OR L15)  
L23 37 SEA L21 NOT L22  
L24 28 SEA 1802-2006/PY,PRY,AY AND L23

FILE 'REGISTRY' ENTERED AT 14:56:25 ON 29 DEC 2010

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FILE 'HCAPLUS' ENTERED AT 14:56:35 ON 29 DEC 2010  
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=&gt; D L22 1 IBIB ABS HITSTR HITIND RETABLE

L22 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1027076 HCAPLUS Full-text

DOCUMENT NUMBER: 143:336280

TITLE: Photoresist composition for enhance of patterned  
resist profiles on chrome or sensitive substrates

INVENTOR(S): Moreau, Wayne M.; Angelopoulos,  
Marie; Huang, Wu-Song; Medeiros,  
David R.; Petrillo, Karen E.

PATENT ASSIGNEE(S): International Business Machines Corporation,  
USA

SOURCE: PCT Int. Appl., 19 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005088393	A1	20050922	WO 2004-US4144	20040211
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1716450 A1 20061102 EP 2004-710274 20040211

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

CN 1914558 A 20070214 CN 2004-80041556 20040211

JP 2007522524 T 20070809 JP 2006-553101 20040211

KR 2006127935 A 20061213 KR 2006-7015277 20060728

US 20080227030 A1 20080918 US 2006-597904 20060811

PRIORITY APPLN. INFO.: WO 2004-US4144 W 20040211

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

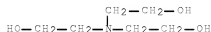
AB Resist comps. having good footing properties even on difficult substrates are  
 obtained by using a combination of base additives including a room temperature solid  
 base, and a liquid low vapor pressure base. The comps. are especially useful on  
 metal substrates such as chromium-containing layers commonly used in mask-making.

IT 102-71-6, Triethanolamine, uses 1122-58-3

RL: MOA (Modifier or additive use); USES (Uses)  
 (photoresist composition for enhance of patterned resist profiles on chrome  
 or sensitive substrates)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI G03C0001-73 [ICM,7]; G03F0007-039 [ICS,7]; G03F0007-20 [ICS,7];  
 G03F0007-30 [ICS,7]

IPCR G03C0001-73 [I,C\*]; G03C0001-73 [I,A]; G03F0007-039 [I,C\*]; G03F0007-039  
 [I,A]; G03F0007-20 [I,C\*]; G03F0007-20 [I,A]; G03F0007-30 [I,C\*];  
 G03F0007-30 [I,A]

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)

IT 91-59-8, 2-Naphthylamine 102-71-6, Triethanolamine, uses  
 103-84-4, Acetanilide 122-39-4, Diphenylamine, uses 134-32-7,  
 1-Naphthylamine 1122-58-3 39350-32-8, Diazabicycloundecene  
 48152-09-6

RL: MOA (Modifier or additive use); USES (Uses)  
 (photoresist composition for enhance of patterned resist profiles on chrome

or sensitive substrates)

## RETABLE

Referenced (RAU)	Author	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Watanabe		1999			US 5876900	HCAPLUS

=> D L24 1-28 IBIB ABS HITSTR HITIND RETABLE

L24 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:722261 HCAPLUS Full-text

DOCUMENT NUMBER: 149:60329

TITLE: Volatile compositions having an end-of-life indication

INVENTOR(S): Blondeau, Philippe; Boil, Alice Bresson

PATENT ASSIGNEE(S): Givaudan SA, Switz.

SOURCE: Brit. UK Pat. Appl., 13pp.

CODEN: BAXXDU

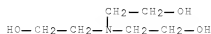
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2444702	A	20080618	GB 2006-24857	20061213 <--
PRIORITY APPLN. INFO.:			GB 2006-24857	20061213 <--
AB	A non-aqueous composition comprising a halochromic dye, a fragrance material, a non-volatile base or acid, and a highly polar, low volatile solvent is disclosed. The composition changes its color when the predominant part of the fragrance material has evaporated over time. The preferred composition comprises bromocresol green as the dye, triethanolamine as the non-volatile base, dipropyleneglycol as the solvent, and a fragrance composition. Also claimed is an air-freshener device in which a composition of the present invention is absorbed or adsorbed in a material selected from paper, textiles, felt-type materials, wovens and non-wovens, glass fiber filters and crystals.			
IT	102-71-6, Triethanolamine, uses 1122-58-3, 4-Dimethylaminopyridine.			
RL:	NUU (Other use, unclassified); USES (Uses) (volatile comps. having an end-of-life indication, with application to air fresheners)			
RN	102-71-6 HCAPLUS			
CN	Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)			



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI A61L0009-01 [I,A]; A61L0009-04 [I,A]; A61Q0013-00 [I,A]  
 IPCR A61L0009-01 [I,C]; A61L0009-01 [I,A]; A61L0009-04 [I,C]; A61L0009-04 [I,A]; A61Q0013-00 [I,C]; A61Q0013-00 [I,A]  
 CC 59-6 (Air Pollution and Industrial Hygiene)  
 Section cross-reference(s): 41  
 IT 50-78-2, Acetylsalicylic acid 56-81-5, Glycerine, uses 57-11-4, Stearic acid, uses 57-55-6, Propyleneglycol, uses 59-67-6, Nicotinic acid, uses 60-33-3, Linoleic acid, uses 76-60-8, Bromocresol green 77-92-9, Citric acid, uses 79-10-7, Acrylic acid, uses 102-71-6, Triethanolamine, uses 106-49-0, 4-Methylphenyl amine, uses 112-27-6, Triethyleneglycol 127-17-3, Pyruvic acid, uses 143-07-7, Lauric acid, uses 1122-58-3, 4-Dimethylaminopyridine. 2163-42-0, 2-Methyl-1,3-propanediol 25265-71-8, Dipropyleneglycol 25498-49-1, Tripropyleneglycol methyl ether  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (volatile comps. having an end-of-life indication, with application to air fresheners)

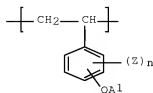
## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Johnson, S				EP 0309173 A	HCAPLUS
Unilever				GB 1581333 A	HCAPLUS

L24 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2008:349332 HCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 148:342342  
 TITLE: Positive resist composition with high resolution, good pattern profiles, and decreased out gas problem and their pattern formation  
 INVENTOR(S): Mizutani, Kazuyoshi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 58pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

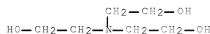
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008065114	A	20080321	JP 2006-243850	20060908 <--
PRIORITY APPLN. INFO.:			JP 2006-243850	20060908 <--

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- AB The pos. resist composition contain resins (A) containing repeating units with sulfonium salt structures which generate acid upon irradiation of actinic light or radiation and are connected to main chains via acid-decomposing linking groups, preferably, acetals or ketals. Preferably, the resins A further contain repeating units represented by the general formula (I) (Z = OH, halo, cyano, nitro, acyl, alkoxy, acyloxy; Al = acid-labile group; n = 0-4) and CH<sub>2</sub>CRaCORd (Ra = H, Me, cyano, Cl; Rd = acid-labile group). The pos. resist composition is formed into a resist film and subjected to liquid immersion lithog., EUV lithog., or electron beam lithog.
- IT 102-71-6, Triethanolamine, uses 1122-58-3  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (pos. resist composition containing photoacid-generating acid-labile sulfonium group-containing polymer and their pattern formation)
- RN 102-71-6 HCAPLUS
- CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



- RN 1122-58-3 HCAPLUS
- CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



- IPCI G03F0007-004 [I,A]; G03F0007-039 [I,A]; H01L0021-027 [I,A]; H01L0021-02 [I,C\*]
- IPCR G03F0007-004 [I,C]; G03F0007-004 [I,A]; G03F0007-039 [I,C]; G03F0007-039 [I,A]; H01L0021-02 [I,C]; H01L0021-027 [I,A]
- CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- IT 102-71-6, Triethanolamine, uses 120-07-0 124-22-1,

Dodecylamine 1122-58-3 3001-72-7,  
1,5-Diazabicyclo[4.3.0]non-5-ene

RL: MOA (Modifier or additive use); USES (Uses)

(pos. resist composition containing photoacid-generating acid-labile sulfonium group-containing polymer and their pattern formation)

L24 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:297628 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 145:7569

TITLE: Dual mechanism of zinc-proline catalyzed aldol reactions in water

AUTHOR(S): Kofoed, Jacob; Darbre, Tamis; Reymond, Jean-Louis  
CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of Berne, Bern, CH-3012, Switz.

SOURCE: Chemical Communications (Cambridge, United Kingdom) (2006), (14), 1482-1484  
CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The aldol reaction of acetone with aldehydes in aqueous medium under catalysis by zinc-proline (Zn(1-Pro)2) and secondary amines such as proline, (2S,4R)-4-hydroxyproline (Hyp) and (S)-(+)-1-(2-pyrrolidinomethyl)pyrrolidine (PMP) is shown to proceed by an enamine mechanism, as evidenced by reductive trapping of the iminium intermediate, while the aldol reaction of dihydroxyacetone (DHA) under catalysis by zinc-proline and by general bases such as N-methylmorpholine (NMM) is shown to occur under rate-limiting deprotonation of the  $\alpha$ -carbon and formation of an enolate intermediate.

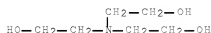
IT 102-71-6, Triethanolamine, uses 1122-58-3

RL: CAT (Catalyst use); USES (Uses)

(dual mechanism of zinc-proline catalyzed aldol reactions in water)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 22-4 (Physical Organic Chemistry)

Section cross-reference(s): 67

IT 51-35-4 56-87-1, L-Lysine, uses 72-18-4, L-Valine, uses

102-71-6, Triethanolamine, uses 109-02-4, N-Methylmorpholine  
 110-91-8, Morpholine, uses 111-42-2, Diethanolamine, uses 141-43-5,  
 Ethanolamine, uses 147-85-3, Proline, uses 288-32-4, Imidazole, uses  
 822-36-6, 4-Methylimidazole 1122-58-3 40816-53-3  
 51207-66-0, (S)-(+)-1-(2-Pyrrolidinomethyl)pyrrolidine  
 RL: CAT (Catalyst use); USES (Uses)  
 (dual mechanism of zinc-proline catalyzed aldol reactions in water)

## RETABLE

Referenced Author (RAU)	[Year (RPY)]	[VOL (RVL)]	[PG (RPG)]	Referenced Work (RWK)	Referenced File
Badalassi, F	2004	1	2557	Eur J Org Chem	HCAPLUS
Bogevig, A	2002	16	620	Chem Commun	1
Clouet, A	2004	143	4612	Angew Chem, Int Ed	HCAPLUS
Darbre, T	2003	1	1090	Chem Commun	HCAPLUS
Dziedzic, P	2006	14	38	Org Biomol Chem	HCAPLUS
Eder, U	1971	110	1496	Angew Chem, Int Ed	HCAPLUS
Enders, D	2005	144	1210	Angew Chem, Int Ed	HCAPLUS
Esposito, A	2003	142	1381	Angew Chem, Int Ed	HCAPLUS
Fernandez-Lopez, R	2005	124	5268	Eur J Org Chem	1
Goddard, J	2004	122	363	Trends Biotechnol	HCAPLUS
Hajos, Z	1973	138	3239	J Org Chem	HCAPLUS
Hajos, Z	1974	139	1615	J Org Chem	HCAPLUS
Heine, A	1997	1278	12085	Science	1
Hoffmann, T	1998	120	2768	J Am Chem Soc	HCAPLUS
Jai, J	1997	16	119	Protein Sci	1
Jourdain, N	1998	139	9415	Tetrahedron Lett	HCAPLUS
Klein, G	1998	18	1113	Bioorg Med Chem Lett	HCAPLUS
Klein, G	1999	182	1400	Helv Chim Acta	HCAPLUS
Kofoed, J	2003	113	12445	Bioorg Med Chem Lett	HCAPLUS
Kofoed, J	2004	1	1540	Chem Commun	HCAPLUS
Kofoed, J	2005	19	656	Curr Opin Chem Biol	HCAPLUS
Kofoed, J	2005	13	1850	Org Biomol Chem	HCAPLUS
Krattiger, P	2005	17	1101	Org Lett	HCAPLUS
Lai, C	1967	121	790	Arch Biochem Biophys	HCAPLUS
Lai, C	1971	144	363	Arch Biochem Biophys	HCAPLUS
List, B	2000	122	2395	J Am Chem Soc	HCAPLUS
Machajewski, T	2000	139	1352	Angew Chem, Int Ed	HCAPLUS
Northrup, A	2002	124	6798	J Am Chem Soc	HCAPLUS
Northrup, A	2004	1305	1752	Science	HCAPLUS
Perez Carlon, R	2000	16	4154	Chem-Eur J	IMEDLINE
Reymond, J	1995	160	6970	J Org Chem	HCAPLUS
Ricardo, A	2004	1303	196	Science	HCAPLUS
Seayad, J	2005	13	719	Org Biomol Chem	HCAPLUS
Shulman, H	2000	122	10743	J Am Chem Soc	HCAPLUS
Sicard, R	2005	1347	1041	Adv Synth Catal	HCAPLUS
Tanaka, F	2005	144	17583	Biochemistry	HCAPLUS
Tanaka, F	2001	18	769	Chem Commun	1
Wagner, J	1995	1270	1797	Science	HCAPLUS

OS.CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS  
 RECORD (23 CITINGS)

L24 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:2267 HCAPLUS Full-text

DOCUMENT NUMBER: 142:38142

TITLE: An improved process for the preparation of  
 oxindolecarboxamides



INVENTOR(S): Kumar, Potlapally Rajendeer; Goud, Puppali Satish;  
Raju, Sirisilla; Reddy, Gaddam Om  
PATENT ASSIGNEE(S): Dr. Reddy's Research Foundation, India  
SOURCE: Indian, 19 pp.  
CODEN: INXXAP  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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IN 182470	Al	19990417	IN 1996-MA218	19960212 <--
PRIORITY APPLN. INFO.:			IN 1996-MA218	19960212 <--
OTHER SOURCE(S):		CASREACT 142:38142; MARPAT 142:38142		
GI				

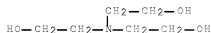
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The present invention provides an improved process for the preparation of oxindolecarboximides I [R = halo], by hydrolyzing a compound II to yield a compound III, treating III with an inorg. cyanate to give a compound IV, cyclizing IV to give a compound V, condensing V with thiophene-2-carbonyl chloride to give appropriate oxindole-1-carboxamides I. E.g., a Tenidap, known inhibitor of prostaglandin synthesis (no biol. data), was prepared, starting from 5-chloro-1H-indol-2-one. The oxindole-1-carboxamides prepared by the above described process are useful in the treatment of inflammation, rheumatoid, and osteoarthritis (no data).

IT 102-71-6, Triethanolamine, reactions 1122-58-3,  
4-Dimethylaminopyridine  
RL: RGT (Reagent); RACT (Reactant or reagent)  
(an improved process for the preparation of oxindolecarboxamides)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07D0409-00 [ICM,6]  
IPCR C07D0409-00 [I,C\*]; C07D0409-00 [I,A]  
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))  
IT 64-19-7, Acetic acid, reactions 79-09-4, Propionic acid, reactions  
102-71-6, Triethanolamine, reactions 104-15-4, p-Toluenesulfonic  
acid, reactions 106-31-0, Butyric anhydride 107-92-6, Butyric acid,  
reactions 108-24-7, Acetic anhydride 121-44-8, Triethylamine,  
reactions 121-69-7, N,N-Dimethylaniline, reactions 123-62-6, Propionic  
anhydride 127-08-2, Potassium acetate 127-09-3, Sodium acetate  
137-40-6, Sodium propionate 156-54-7, Sodium butyrate 327-62-8,  
Potassium propionate 589-39-9, Potassium butyrate 1122-58-3,  
4-Dimethylaminopyridine 3424-21-3, Triisopropylamine 7646-78-8,  
Stannic chloride, reactions 7719-09-7, Thionyl chloride 10025-87-3,  
Phosphorus oxychloride 10026-13-8, Phosphorus pentachloride  
RL: RGT (Reagent); RACT (Reactant or reagent)  
(an improved process for the preparation of oxindolecarboxamides)  
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

L24 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:947089 HCAPLUS Full-text

DOCUMENT NUMBER: 138:153080

TITLE: Opening of tartrate acetals using dialkylboron  
bromide: evidence for stereoselectivity downstream  
from ring fission

AUTHOR(S): Guindon, Yvan; Ogilvie, William W.; Bordeleau, Josee;  
Cui, Wei Li; Durkin, Kathy; Gorys, Vida; Juteau,  
Helene; Lemieux, Rene; Liotta, Dennis; Simoneau,  
Bruno; Yoakim, Christiane

CORPORATE SOURCE: Bio-Mega Research Division, Boehringer Ingelheim  
(Canada) Ltd., Laval, QC, H7S 2G5, Can.

SOURCE: Journal of the American Chemical Society (2003  
, 125(2), 428-436  
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:153080

AB Johnson-type acetals derived from di-Me tartrate give, after opening with Me2BBr and  
cuprate displacement, secondary alcs. with high diastereoselectivity (>30:1). The  
mechanism proposed for the induction of diastereoselectivity is downstream from the  
ring fission. It implies a direct participation of the Lewis acid as a source of  
nucleophile and the stereospecific transformation of the resulting bromo acetal  
through an invertive and temperature-dependent process. The acetals are prepared by  
reaction of the desired aldehyde with di-Me tartrate. Removal of the auxiliary is  
accomplished through SmI2 reduction or by an addition-elimination protocol using  
methoxide.

IT 1122-58-3, 4-Dimethylaminopyridine  
RL: CAT (Catalyst use); USES (Uses)  
(esterification catalyst; stereoselectivity downstream from ring  
fission of tartrate acetals using dialkylboron bromide)

RN 1122-58-3 HCAPLUS

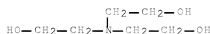
CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IT 102-71-6, Triethanolamine, uses  
 RL: CAT (Catalyst use); USES (Uses)  
 (in conversion to mixed acetal derivative; stereoselectivity downstream  
 from ring fission of tartrate acetals using dialkylboron bromide)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



CC 22-3 (Physical Organic Chemistry)  
 Section cross-reference(s): 29, 33, 75

IT 1122-58-3, 4-Dimethylaminopyridine  
 RL: CAT (Catalyst use); USES (Uses)  
 (esterification catalyst; stereoselectivity downstream from ring  
 fission of tartrate acetals using dialkylboron bromide)

IT 102-71-6, Triethanolamine, uses 3144-16-9, Camphorsulfonic  
 acid 7087-68-5  
 RL: CAT (Catalyst use); USES (Uses)  
 (in conversion to mixed acetal derivative; stereoselectivity downstream  
 from ring fission of tartrate acetals using dialkylboron bromide)

OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS  
 RECORD (14 CITINGS)

L24 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:946292 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 138:13981

TITLE: Process for the preparation of high purity cefdinir  
 via formations of crystalline acid salts

INVENTOR(S): Lee, Gwan Sun; Chang, Young Kil; Kim, Hong Sun; Park,  
 Chul Huyn; Park, Gha Seung; Kim, Cheol Kyung

PATENT ASSIGNEE(S): Hanmi Pharm. Co., Ltd., S. Korea

SOURCE: PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

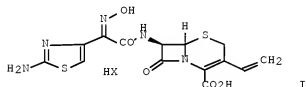
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2002098884	A1	20021212	WO 2002-KR1064	20020605 <--
W: CN, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE, TR			
KR 2002092612	A	20021212	KR 2001-31339 20010605 <--
EP 1392703	A1	20040303	EP 2002-730990 20020605 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR			
CN 1512996	A	20040714	CN 2002-811334 20020605 <--
CN 1235902	C	20060111	
JP 2004534053	T	20041111	JP 2003-502005 20020605 <--
JP 4152879	B2	20080917	
US 20040210049	A1	20041021	US 2003-479291 20031125 <--
US 7157576	B2	20070102	
JP 2008189688	A	20080821	JP 2008-99293 20080407 <--
PRIORITY APPLN. INFO.:		KR 2001-31339	A 20010605 <--
		JP 2003-502005	A3 20020605 <--
		WO 2002-KR1064	W 20020605 <--

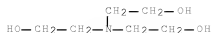
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
GI



AB High purity cefdinir is prepared in a high yield by a process comprising the steps of: treating a cefdinir intermediate with a formic acid-sulfuric acid mixture or a formic acid-methanesulfonic acid mixture to obtain a crystalline salt of cefdinir I [HX = H<sub>2</sub>SO<sub>4</sub>, MeSO<sub>3</sub>H] and reacting the crystalline salt with a base in a solvent. Thus, crystalline cefdinir.TsOH.2DMAC was prepared by an amidation reaction of (Z)-2-amino-α-[(triphenylmethoxy)imino]-4- thiazoleethanethioic acid S-2-benzothiazolyl ester with 7-amino-3-vinyl-3-cephem-4-carboxylic acid using Bu<sub>3</sub>N in N,N-dimethylacetamide (DMAC), followed by treatment with TsOH. Crystalline cefdinir.TsOH.2DMAC was converted to crystalline cefdinir.H<sub>2</sub>SO<sub>4</sub> in 91% yield using 90% HCO<sub>2</sub>H, 98% H<sub>2</sub>SO<sub>4</sub> and MeCN. 99.9% Pure cefdinir was then obtained by suspending crystalline cefdinir.H<sub>2</sub>SO<sub>4</sub> in H<sub>2</sub>O and adjusting the pH to 3.4 to 3.6 using Na<sub>2</sub>CO<sub>3</sub>. Also, 99.8% pure cefdinir was prepared via a similar sequence in which the intermediate salt was cefdinir.MeSO<sub>3</sub>H.

IT 102-71-6, Triethanolamine, reactions 1122-58-3, 4-Dimethylaminopyridine  
RL: RGT (Reagent); RACT (Reactant or reagent)  
(process for the preparation of high purity cefdinir via formations of crystalline acid salts)

RN 102-71-6 HCAPLUS  
CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07D0501-22 [ICM,7]; C07D0501-00 [ICM,7,C\*]  
 IPCR C07B0061-00 [I,C\*]; C07B0061-00 [I,A]; C07D0501-00 [I,C\*]; C07D0501-00 [I,A]; C07D0501-14 [I,A]; C07D0501-22 [I,A]  
 CC 26-5 (Biomolecules and Their Synthetic Analogs)  
 Section cross-reference(s): 75  
 IT 102-71-6, Triethanolamine, reactions 102-82-9, Tributylamine  
 103-83-3, Dimethylbenzylamine 110-86-1, Pyridine, reactions 121-44-8,  
 Triethylamine, reactions 127-08-2, Potassium acetate 127-09-3, Sodium  
 acetate 144-55-8, Sodium bicarbonate, reactions 298-14-6, Potassium  
 bicarbonate 497-19-8, Sodium carbonate, reactions 584-08-7, Potassium  
 carbonate 598-56-1 1122-58-3, 4-Dimethylaminopyridine  
 1310-58-3, Potassium hydroxide, reactions 1310-73-2, Sodium hydroxide,  
 reactions 7087-68-5, Diisopropylethylamine 7664-41-7, Ammonia,  
 reactions 19766-89-3, Sodium 2-ethylhexanoate  
 RL: RGT (Reagent); RACT (Reactant or reagent)  
 (process for the preparation of high purity cefdinir via formations of  
 crystalline acid salts)

## RETABLE

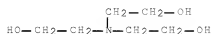
Referenced Author (RAU)	Year     (RPY)	VOL     (RVL)	PG     (RPG)	Referenced Work (RWK)	Referenced File
Biochemie Gesellschaft	1998			WO 9845299 A1	HCAPLUS
Fujisawa Pharmaceutical	1990			JP 02-790 A2	HCAPLUS
Hanmi Pharmaceutical Co	1997			WO 9724358 A1	HCAPLUS
Sakane, K	1993	113	1605	Yakugaku Zasshi	HCAPLUS

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD  
 (8 CITINGS)

L24 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2002:658175 HCAPLUS Full-text  
 DOCUMENT NUMBER: 137:186435  
 TITLE: Production and use of liquid epoxy resin emulsions  
 INVENTOR(S): Lienert, Klaus-Wilhelm; Schmidt, Gerold;  
 Toedter-Koenig, Sascha  
 PATENT ASSIGNEE(S): Schenectady International Inc., USA  
 SOURCE: PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent

LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066534	A1	20020829	WO 2002-EP1195	20020206 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10108129	A1	20020905	DE 2001-10108129	20010221 <--
CA 2438726	A1	20020829	CA 2002-2438726	20020206 <--
AU 2002244703	A1	20020904	AU 2002-244703	20020206 <--
EP 1368401	A1	20031210	EP 2002-712893	20020206 <--
EP 1368401	B1	20041222		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1491245	A	20040421	CN 2002-804781	20020206 <--
CN 1210325	C	20050713		
JP 2004528411	T	20040916	JP 2002-566247	20020206 <--
JP 3904516	B2	20070411		
MX 2003007415	A	20040812	MX 2003-7415	20030819 <--
US 20040087685	A1	20040506	US 2003-468563	20031229 <--
US 6949592	B2	20050927		
PRIORITY APPLN. INFO.:			DE 2001-10108129 A 20010221 <--	
			WO 2002-EP1195 W 20020206 <--	
AB	In the title process, which gives non-corrosive emulsions useful in the production of elec. machinery, mixts. of (modified) epoxy resins, nonionic thickeners, and curing catalysts (BF3 complexes with epoxides) are dispersed in water. An impregnating emulsion (viscosity 650 mPa-s, solids 49.4%) was prepared by dispersing an epoxy resin (Epikote 828) 1000.0, nonionic thickener (Acrysol RM8) 50.0, and antifoam 2.5 g in 1052.5 g H2O to give a dispersion with binder content 49.1% and viscosity 800 mPa-s at 23°; and mixing this emulsion 650.0, Anchor-1115 (reaction product of a BF3:2-propanamine complex with Bu glycidyl ether) 30.0, C8H17NMe2 8.0, and H2O 30.0 g.			
IT	102-71-6, Triethanolamine, uses 1122-58-3, 4-(Dimethylamino)pyridine			
RL:	TEM (Technical or engineered material use); USES (Uses) (production and use of liquid epoxy resin emulsions)			
RN	102-71-6 HCAPLUS			
CN	Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)			



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C08G0059-18 [ICM,7]; C08G0059-40 [ICS,7]; C08G0059-72 [ICS,7]; C08G0059-00 [ICS,7,C\*]; C09D0163-00 [ICS,7]; C08L0063-00 [ICS,7]; H01B0003-40 [ICS,7]; H01L0023-29 [ICS,7]; H01L0023-28 [ICS,7,C\*]; C09J0163-00 [ICS,7]  
 IPCR C08L0063-00 [I,C\*]; C08L0063-00 [I,A]; C08G0059-00 [I,C\*]; C08G0059-68 [I,A]; C08J0003-20 [I,C\*]; C08J0003-21 [I,A]; C08K0005-00 [I,C\*]; C08K0005-00 [I,A]; C09D0005-02 [I,C\*]; C09D0005-02 [I,A]; C09D0005-25 [I,C\*]; C09D0005-25 [I,A]; C09D0007-12 [I,C\*]; C09D0007-12 [I,A]; C09D0163-00 [I,C\*]; C09D0163-00 [I,A]; H01B0003-40 [I,C\*]; H01B0003-40 [I,A]  
 CC 37-6 (Plastics Manufacture and Processing)  
 IT 102-71-6, Triethanolamine, uses 102-82-9, Tributylamine  
 103-83-3, N,N-Dimethylbenzylamine 108-01-0, N,N-Dimethylethanolamine  
 112-18-5, N,N-Dimethyldodecylamine 112-69-6, N,N-Dimethylhexadecylamine  
 121-44-8, Triethylamine, uses 693-98-1, 2-Methylimidazole  
 1122-58-3, 4-(Dimethylamino)pyridine 7378-99-6,  
 N,N-Dimethyloctylamine 7396-58-9, N-Methyldidecylamine 13750-62-4,  
 1-Benzyl-2-methylimidazole 50790-93-7, 2-Butylimidazole  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (production and use of liquid epoxy resin emulsions)

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Basf Lacke & Farben	1996			DE 19613547 A	HCAPLUS
Schreiber, P	1996			US 5523336 A	HCAPLUS
Somar Corp	1994			JP 06184261 A	HCAPLUS
Wytownia Zwiaskow Orga	1993			DE 4232220 A	HCAPLUS

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

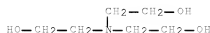
L24 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2001:439699 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:150737  
 TITLE: DBU as nucleophilic catalyst in the Baylis-Hillman reaction  
 AUTHOR(S): Aggarwal, Varinder K.; Mereu, Andrea  
 CORPORATE SOURCE: Department of Chemistry, University of Sheffield, Brook Hill, Sheffield, S3 7HF, UK  
 SOURCE: Chemical Industries (Dekker) (2001), 82(Catalysis of Organic Reactions), 595-600  
 CODEN: CHEIDI; ISSN: 0737-8025  
 PUBLISHER: Marcel Dekker, Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 136:150737

AB Nucleophilic and unhindered catalysts are normally required for the Baylis-Hillman reaction. We have discovered that DBU, which is normally regarded as a hindered and non-nucleophilic base, is in fact the optimum catalyst for this reaction, providing adducts at much faster rates than DABCO or 3HQD. The scope of the Baylis Hillman reaction is enhanced by using this catalyst, and implications of this finding are discussed.

IT 102-71-6, Triethanolamine, uses 1122-58-3, DMAP  
 RL: CAT (Catalyst use); USES (Uses)  
 (DBU as nucleophilic catalyst in Baylis-Hillman reaction)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 21-2 (General Organic Chemistry)

IT 102-71-6, Triethanolamine, uses 280-57-9, DABCO  
 1122-58-3, DMAP 1619-34-7, 3-Hydroxyquinuclidine 6674-22-2,  
 DBU 52093-26-2, Lanthanum triflate  
 RL: CAT (Catalyst use); USES (Uses)  
 (DBU as nucleophilic catalyst in Baylis-Hillman reaction)

## RETABLE

Referenced Author (RAU)	Year	VOL	PG	Referenced Work (RPY)   (RVL)   (RPG)	Referenced (RWK)	Referenced File
=====	+	=====	+	=====	+	=====
Aggarwal, V	1998	63	7183	J Org Chem		HCAPLUS
Auvray, P	1988	44	6095	Tetrahedron		HCAPLUS
Basavaiah, D	1987	17	587	Synth Commun		HCAPLUS
Basavaiah, D	1996	52	8001	Tetrahedron		HCAPLUS
Berthe, M	1992					HCAPLUS
Berthe, M	1994			US 5332836		HCAPLUS
Berthe, M	1992			Eur Patent Appl, EP		
Chakrabarty, M	1996		190	J Chem Research (S)		HCAPLUS
Chambers, R	1994		2055	J Chem Soc Chem Comm		HCAPLUS
Ciganek, E	1997	51	201	Organic Reactions		HCAPLUS
Drewek, S	1988	44	4653	Tetrahedron		HCAPLUS
Fort, Y	1992	48	6371	Tetrahedron		HCAPLUS
Foucaud, A	1989	3	403	Bull Chim Soc Fr		
Hill, J	1990	3	285	J Phys Org Chem		HCAPLUS
Hillman, M	1972					HCAPLUS



Hwu, J	1992  33  6469  Tetrahedron Lett	HCAPLUS
Johnson, M	1997  38  7003  Tetrahedron Lett	HCAPLUS
Ma, L	1996  52  849  Tetrahedron	HCAPLUS
Oediger, H	1972  1  591  Synthesis	HCAPLUS
Reed, R	1993  105  464  Angew Chem	HCAPLUS
Reed, R	1993  32  399  Angew Chem Int Ed	

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
(2 CITINGS)

L24 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:794405 HCAPLUS Full-text

DOCUMENT NUMBER: 130:95297

TITLE: Study on synthesis of trichloroacetyl chloride

AUTHOR(S): Liu, Yaoyuan; Shen, Shitang; Chen, Xuemin

CORPORATE SOURCE: 716 Research Department of the seventh Institute,  
China Shipping Company, Lianyungang, 222001, Peop.  
Rep. China

SOURCE: Huaxue Shijie (1998), 39(8), 412-414

PUBLISHER: CODEN: HUAKAB; ISSN: 0367-6358

DOCUMENT TYPE: Shanghaishi Huaxue Huagong Xuehui

LANGUAGE: Journal

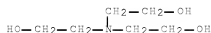
AB Chlorination of dichloroacetyl chloride with Cl<sub>2</sub> in the presence of pyridine and p-dimethylaminopyridine gave 90% trichloroacetyl chloride.

IT 102-71-6, Triethanolamine, uses 1122-58-3, Dmap

RL: CAT (Catalyst use); USES (Uses)  
(synthesis of trichloroacetyl chloride)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 23-16 (Aliphatic Compounds)

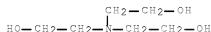
IT 102-71-6, Triethanolamine, uses 109-06-8, 2-Methylpyridine  
110-86-1, Pyridine, uses 121-44-8, Triethylamine, uses  
1122-58-3, Dmap

RL: CAT (Catalyst use); USES (Uses)  
(synthesis of trichloroacetyl chloride)

L24 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1998:512454 HCAPLUS Full-text  
 DOCUMENT NUMBER: 129:230865  
 ORIGINAL REFERENCE NO.: 129:46983a,46986a  
 TITLE: Preparation of unsaturated alcohols  
 INVENTOR(S): Iwasaki, Shuji; Yoneda, Koichi; Onishi, Takashi  
 PATENT ASSIGNEE(S): Kuraray Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10212254	A	19980811	JP 1997-31120	19970130 <--
JP 3863957	B2	20061227		

PRIORITY APPLN. INFO.: JP 1997-31120 19970130 <--  
 OTHER SOURCE(S): CASREACT 129:230865; MARPAT 129:230865  
 AB Me2C:CHCH2CH2CHMe(CH2)n+2OH (n = 0-2) are prepared by reaction of  
 Me2C:CHCH2CH2CHMeCHY(CH2)nCHO (X, Y = H; XY = C-C bond; n = 0-2) with H in the  
 presence of Fe- or Cr-modified Raney nickel and tertiary amines or pyridines.  
 Citral was hydrogenated with BLM 112w (Fe- and Cr-modified Raney Ni) in the presence  
 of triethanolamine in i-PrOH under 7 kg/cm<sup>2</sup> H at 100° for 10 h to give citronellol  
 with 93.2% selectivity at 100% conversion.  
 IT 102-71-6, reactions 1122-58-3,  
 4-(Dimethylamino)pyridine  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of unsatd. alcs. by hydrogenation of unsatd. aldehydes in the  
 presence of Raney Ni catalysts and amines or pyridines)  
 RN 102-71-6 HCAPLUS  
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)

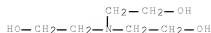


IPCI C07C0029-141 [I,A]; C07C0029-00 [I,C\*]; C07C0033-02 [I,A]; C07C0033-00  
 [I,C\*]; C07B0061-00 [N,A]  
 IPCR B01J0031-26 [I,C\*]; B01J0031-28 [I,A]; C07B0061-00 [I,C\*]; C07B0061-00

[I,A]; C07C0029-00 [I,C\*]; C07C0029-141 [I,A]; C07C0033-00 [I,C\*];  
 C07C0033-02 [I,A]  
 CC 30-10 (Terpenes and Terpenoids)  
 IT 100-37-8, N,N-Diethylethanolamine 102-71-6, reactions  
 106-23-0, Citronellal 110-86-1, Pyridine, reactions 121-44-8,  
 reactions 139-87-7, N-Ethyldiethanolamine 1122-58-3,  
 4-(Dimethylamino)pyridine 5392-40-5, Citral  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of unsatd. alcs. by hydrogenation of unsatd. aldehydes in the  
 presence of Raney Ni catalysts and amines or pyridines)

L24 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1997:597489 HCAPLUS Full-text  
 DOCUMENT NUMBER: 127:221439  
 ORIGINAL REFERENCE NO.: 127:43161a, 43164a  
 TITLE: Heat-curable compositions based on cyclic isocyanate  
 addition products  
 INVENTOR(S): Lee, Sze-ming; Yeske, Philip E.; Priddy, Duane B.,  
 Jr.; Kumpf, Robert J.; Wicks, Douglas A.  
 PATENT ASSIGNEE(S): Bayer Corp., USA  
 SOURCE: U.S., 8 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5663274	A	19970902	US 1996-658787	19960605 <--
CA 2205628	A1	19971205	CA 1997-2205628	19970516 <--
EP 811646	A2	19971210	EP 1997-108868	19970603 <--
EP 811646	A3	19980506		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 10067841	A	19980310	JP 1997-160662	19970604 <--
PRIORITY APPLN. INFO.:			US 1996-658787	A 19960605 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
AB	The title addition products are the reaction products of a) a polyisocyanate component having an average isocyanate functionality of two or more and a uretodiene group content (calculated as N2C2O2, MW 84) of 1 to 30%, based on the weight of the polyisocyanate component, with b) a compound containing two or more isocyanate-reactive groups, and ≥10% of the reaction products are in the form of cyclic groups containing urea and/or urethane groups. Products obtained by curing these compns., optionally in the presence of other isocyanate-reactive compds., at elevated temps., are useful as e.g., coatings, adhesives, molded articles, elastomers and foams.			
IT	102-71-6DP, cyclic addition products with isocyanates 1122-58-3DP, reaction products with isocyanates, cyclic addition products with isocyanate-reactive compds.			
RL:	IMF (Industrial manufacture); PREP (Preparation) (heat-curable compns. based on cyclic isocyanate addition products)			
RN	102-71-6 HCAPLUS			
CN	Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)			



RN 1122-58-3 HCAPLUS  
CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



INCL 528073000  
IPCI C08G0018-72 [ICM,6]; C08G0018-00 [ICM,6,C\*]  
IPCR C08G0018-06 [I,A]; C08G0018-00 [I,C\*]; C08G0018-08 [I,A]; C08G0018-48 [I,A]; C08G0018-79 [I,A]; C09D0175-04 [I,C\*]; C09D0175-04 [I,A]  
NCL 528/073.000; 252/182.200; 525/440.020; 525/457.000; 525/458.000; 540/455.000  
CC 37-3 (Plastics Manufacture and Processing)  
Section cross-reference(s): 42  
IT 102-71-6DP, cyclic addition products with isocyanates 110-85-0DP, Piperazine, cyclic addition products with isocyanates, preparation 111-40-0DP, cyclic addition products with isocyanates 1122-58-3DP, reaction products with isocyanates, cyclic addition products with isocyanate-reactive compds. 4098-71-9DP, Isophorone diisocyanate, reaction products with dimethylaminopyridine, cyclic addition products with isocyanate-reactive compds. 165169-07-3DP, Desmodur N 3400, cyclic addition products with isocyanate-reactive compds.  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(heat-curable compds. based on cyclic isocyanate addition products)

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				US 5191038 A	HCAPLUS
Anon				US 5281669 A	HCAPLUS

L24 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:510480 HCAPLUS Full-text

DOCUMENT NUMBER: 127:255084

ORIGINAL REFERENCE NO.: 127:49713a,49716a

TITLE: Bimolecular photoinduced electron transfer in the Marcus inverted region involving the [Re(CO)3(4-phenylpyridine)3]+ metal-to-ligand charge transfer excited state, amines and their corresponding radical products

AUTHOR(S): Ruiz, G.; Rodriguez-Nieto, F.; Wolcan, E.; Feliz, M. R.

CORPORATE SOURCE: Fac. de Ciencias Exactas, Inst. de Investigaciones Fisicoquimicas Teoricas y Aplicadas, Univ. Nacional de

SOURCE: La Plata, La Plata, 1900, Argent.  
Journal of Photochemistry and Photobiology, A:  
Chemistry (1997), 107(1-3), 47-54  
CODEN: JPPCEJ; ISSN: 1010-6030

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

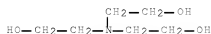
LANGUAGE: English

AB Bimol. electron transfer quenching of the metal-to-ligand charge transfer (MLCT) excited state of  $\text{Re}(\text{CO})_3(4\text{-phenylpyridine})_3(\text{F}_3\text{CSO}_3)$  by amines was studied in acetonitrile at room temperature. The quenching rate consts. (kq) vary from  $1.8 + 107$  to  $2.5 + 1010 \text{ M}^{-1} \text{ s}^{-1}$  (diffusion limit). Moreover, the radical recombination reaction (back electron transfer) was also studied by flash photolysis. The back electron transfer rate consts. range from  $2.8 + 105$  to  $7.0 + 109 \text{ M}^{-1} \text{ s}^{-1}$ , lying below the diffusion-controlled limit. The rate consts. show an inverse dependence on the driving force in the inverted region. All the data points can be fitted using a semiclassical model.

IT 102-71-6, Triethanolamine, properties 1122-58-3,  
4-Dimethylaminopyridine  
RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
PROC (Process)  
(quencher; bimol. photoinduced electron transfer in the Marcus inverted region involving the  $[\text{Re}(\text{CO})_3(4\text{-phenylpyridine})_3]^+$  metal-to-ligand charge transfer excited state, amines and their corresponding radical products)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 51-80-9, N,N,N',N'-Tetramethyldiaminomethane 62-53-3, Aniline, properties 92-87-5, [1,1'-Biphenyl]-4,4'-diamine 102-71-6, Triethanolamine, properties 106-50-3, 1,4-Phenylenediamine, properties 110-18-9, N,N,N',N'-Tetramethylethylenediamine 110-89-4, Piperidine, properties 121-44-8, Triethylamine, properties 280-57-9, DABCO 598-56-1, N,N-Dimethylethylamine 621-77-2, Tripentylamine 996-70-3, Tetrakis(dimethylamino)ethylene 1122-58-3, 4-Dimethylaminopyridine 7087-68-5, N,N-Diisopropylethylamine

RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
 PROC (Process)  
 (quencher; bimol. photoinduced electron transfer in the Marcus inverted  
 region involving the  $[\text{Re}(\text{CO})_3(4\text{-phenylpyridine})_3]^+$  metal-to-ligand  
 charge transfer excited state, amines and their corresponding radical  
 products)

## RETABLE

Referenced Author (RAU)	Year	VOL	PG	Referenced Work	Referenced
	(RPY)	(RVL)	(RPG)	(RWK)	File
Allen, G	1984	106	2613	J Am Chem Soc	HCAPLUS
Ballardini, R	1978	100	17219	J Am Chem Soc	HCAPLUS
Beitz, J	1979	171	14579	J Chem Phys	HCAPLUS
Bexendale, J	1968	164	2389	Trans Faraday Soc	
Burget, D	1994	190	2481	J Chem Soc, Faraday	HCAPLUS
Caspar, J	1984	106	3492	J Am Chem Soc	HCAPLUS
Chance, B	1979			Tunneling in Biologi	
Chen, J	1990	194	12889	J Phys Chem	HCAPLUS
Chen, P	1989	111	8305	J Am Chem Soc	HCAPLUS
Chen, P	1991	195	5850	J Phys Chem	HCAPLUS
Closs, G	1986	190	3673	J Phys Chem	HCAPLUS
Closs, G	1988	240	440	Science	HCAPLUS
Creutz, C	1977	199	241	J Am Chem Soc	HCAPLUS
Creutz, C	1982	104	3614	J Am Chem Soc	
Devonshire, R	1968	172	3815	J Phys Chem	HCAPLUS
Eigen, M	1954	11	176	Z Phys Chem	HCAPLUS
Feliz, M	1992	196	258	J Phys Chem	
Ferraudi, G	1995	199	14929	J Phys Chem	HCAPLUS
Fox, L	1990	247	1069	Science	HCAPLUS
Fuoss, R	1958	180	15059	J Am Chem Soc	HCAPLUS
Garcia-Einschlag, F				KINESIM	
Giordano, P	1978	100	2257	J Am Chem Soc	HCAPLUS
Gould, I	1987	109	3794	J Am Chem Soc	HCAPLUS
Gould, I	1988	110	17242	J Am Chem Soc	HCAPLUS
Gould, I	1989	111	1917	J Am Chem Soc	HCAPLUS
Grossweiner, L	1957	161	1089	J Phys Chem	HCAPLUS
Gunner, M	1989	111	3400	J Am Chem Soc	HCAPLUS
Hopfield, J	1974	171	3640	Proc Natl Acad Sci U	HCAPLUS
Irvine, M	1986	104	315	Chem Phys	HCAPLUS
Levin, P	1988	147	283	Chem Phys Lett	HCAPLUS
Mann, C	1970			Electrochemical Reac	
Marcus, R	1960	29	21	Discuss Faraday Soc	
Marcus, R	1982	174	7	Faraday Discuss Chem	
Marcus, R	1981	113	865	Int J Chem Kinet	HCAPLUS
Marcus, R	1956	124	966	J Chem Soc	HCAPLUS
Marcus, R	1994	182	11	J Photochem Photobio	HCAPLUS
Marcus, R	1994	198	5332	J Phys Chem	
Marcus, R	1979			Third International	
Martire, D	1991	123	457	Int J Chem Kinet	HCAPLUS
Mataga, N	1988	127	249	Chem Phys	HCAPLUS
McCleskey, T	1992	114	6935	J Am Chem Soc	HCAPLUS
Meade, T	1989	111	14353	J Am Chem Soc	HCAPLUS
Miller, J	1984	106	15057	J Am Chem Soc	HCAPLUS
Murakami-Iha, N	1994		2565	J Chem Soc, Dalton T	
Ohno, T	1986	190	3295	J Phys Chem	
Ohno, T	1990	194	14871	J Phys Chem	HCAPLUS
Riddick, J	1979			Organic Solvents, Te	

Riddick, J |1986 | | |Organic Solvents, Te|  
 Roux, E |1977 | | |Electrical Phenomena|  
 Ruiz, G |1995 |89 |61 |J Photochem Photobio|HCAPLUS  
 Ruiz, G |1996 |101 |119 |J Photochem Photobio|HCAPLUS  
 Sandrini, D |1985 |89 |3675 |J Phys Chem |HCAPLUS  
 Scott, J |1993 |115 |6820 |J Am Chem Soc |HCAPLUS  
 Siders, P |1981 |103 |741 |J Am Chem Soc |HCAPLUS  
 Smoluchowski, M |1917 |92 |129 |Phys Chem |  
 Sun, H |1994 |98 |11719 |J Phys Chem |HCAPLUS  
 Sutin, N |1982 |15 |275 |Acc Chem Res |HCAPLUS  
 Sutin, N |1983 |30 |441 |Prog Inorg Chem |HCAPLUS  
 Tapolsky, G |1989 |93 |3885 |J Phys Chem |HCAPLUS  
 Truong, T |1986 |88 |3906 |J Phys Chem |  
 Turro, C |1996 |118 |6060 |J Am Chem Soc |HCAPLUS  
 Wender, I |1987 |1 | |Organic Synthesis vi|  
 Wrighton, M |1974 |100 |5790 |J Am Chem Soc |  
 Wrighton, M |1975 |97 |2073 |J Am Chem Soc |HCAPLUS  
 Yang, D |1989 |91 |281 |J Chem Phys |HCAPLUS  
 Zingales, F |1967 |6 |1246 |Inorg Chem |HCAPLUS  
 Zingales, F |1967 |1 |172 |Inorg Chim Acta |HCAPLUS  
 OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS  
 RECORD (17 CITINGS)

L24 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1997:97199 HCAPLUS Full-text  
 DOCUMENT NUMBER: 126:100687  
 ORIGINAL REFERENCE NO.: 126:19361a,19364a  
 TITLE: Microbicidal composition with sustained chlorine  
 dioxide release  
 INVENTOR(S): Wellinghoff, Stephen T.; Kampa, Joel J.  
 PATENT ASSIGNEE(S): Southwest Research Institute, USA  
 SOURCE: PCT Int. Appl., 84 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 12  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639030	A1	19961212	WO 1996-US9179	19960604 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
US 5650446	A	19970722	US 1995-465358	19950605 <--
AU 9662564	A	19961224	AU 1996-62564	19960604 <--
AU 720367	B2	20000601		
EP 774900	A1	19970528	EP 1996-921314	19960604 <--
EP 774900	B1	20030423		
R: BE, DE, DK, ES, GB, IE, IT, SE				
BR 9606463	A	19971230	BR 1996-6463	19960604 <--
JP 10504841	T	19980512	JP 1997-501564	19960604 <--
JP 3936740	B2	20070627		
HK 1013214	A1	20030808	HK 1998-114504	19981221 <--

PRIORITY APPLN. INFO.:  
 US 1995-462039 A 19950605 <--  
 US 1995-465358 A 19950605 <--  
 US 1993-16904 B3 19930212 <--  
 US 1993-17657 A3 19930212 <--  
 US 1994-192498 B2 19940203 <--  
 US 1994-192499 B2 19940203 <--  
 US 1994-228671 A2 19940418 <--  
 WO 1996-US9179 W 19960604 <--

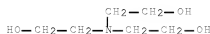
## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A composite for retarding bacterial, fungal and viral contamination and mold growth includes a hydrophilic material containing an  $\alpha$ -amino ether and a chloride salt, and a hydrophobic material containing an acid releasing agent. The hydrophilic and hydrophobic materials are adjacent and free of water, and the hydrophilic material is capable of releasing chlorine dioxide upon hydrolysis of the acid releasing agent. The acid-releasing material is phosphoric acid, a trimethylsilyl phosphate ester, a dialkyl phosphate, sulfonic acid, etc.

IT 102-71-6, uses 1122-58-3, 4-Dimethylaminopyridine  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (microbicidal composition, with sustained chlorine dioxide release, containing)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI A01N0025-22 [ICM,6]  
 IPCR A01N0025-22 [I,C\*]; A01N0025-22 [I,A]; A01N0059-00 [I,C\*]; A01N0059-00 [I,A]; A01N0059-08 [I,C\*]; A01N0059-08 [I,A]; A23B0009-00 [I,C\*]; A23B0009-14 [I,A]; A23B0009-30 [I,A]; A23L0003-34 [I,C\*]; A23L0003-3409 [I,A]; A23L0003-3454 [I,C\*]; A23L0003-358 [I,A]; C01B0011-00 [I,C\*]; C01B0011-02 [I,A]  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 17, 63  
 IT 75-12-7, Formamide, uses 79-06-1, 2-Propenamide, uses 98-94-2, N,N-Dimethylaminocyclohexane 102-71-6, uses 110-18-9 111-42-2, Diethanolamine, uses 141-43-5, uses 1122-58-3, 4-Dimethylaminopyridine 2210-25-5 28432-97-5 38245-21-5 93505-76-1  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (microbicidal composition, with sustained chlorine dioxide release, containing)

RETABLE



Referenced Author (RAU)	Year   (RPY)	VOL   (RVL)	PG   (RPG)	Referenced Work (RWK)	Referenced File
Anon				EP 0287074 A2	HCAPLUS
Anon				US 5360609 A	HCAPLUS

L24 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:193221 HCAPLUS Full-text

DOCUMENT NUMBER: 120:193221

ORIGINAL REFERENCE NO.: 120:34199a,34202a

TITLE: Production of plastics containing amide groups

INVENTOR(S): Kluth, Hermann; Daute, Peter; Klein, Johann;  
Gruetzmacher, Roland; Klauck, Wolfgang

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9315121	A1	19930805	WO 1993-EP145	19930122 <--
R: AU, BR, CA, FI, HU, JP, KR, NO, PL, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 4202758	A1	19930805	DE 1992-4202758	19920131 <--
DE 4202758	C2	20030626		
DE 4215647	A1	19931118	DE 1992-4215647	19920513 <--
DE 4215647	B4	20060413		
DE 4242018	A1	19940616	DE 1992-4242018	19921212 <--
CA 2129253	C	19930805	CA 1993-2129253	19930122 <--
AU 9333521	A	19930901	AU 1993-33521	19930122 <--
AU 667869	B2	19960418		
EP 624170	A1	19941117	EP 1993-902243	19930122 <--
EP 624170	B1	19980826		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, MC, NL, PT, SE				
JP 07503037	T	19950330	JP 1993-512917	19930122 <--
JP 3309980	B2	20020729		
BR 9305821	A	19970218	BR 1993-5821	19930122 <--
US 5527876	A	19960618	US 1994-256993	19940729 <--
PRIORITY APPLN. INFO.:				
			DE 1992-4202758	A 19920131 <--
			DE 1992-4215647	A 19920513 <--
			DE 1992-4242018	A 19921212 <--
			WO 1993-EP145	W 19930122 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The reaction of polyisocyanates with carboxylic acids and, optionally, alcs. or primary or secondary amines in the presence of tertiary amine catalysts proceeds with such vigorous evolution of CO<sub>2</sub> as to give amide group-containing plastic foams without the use of blowing agents. The reaction of 15 g dimer acids with 7.88 g MDI in EtOH containing 0.92 g silicone surfactant and 0.12 g 1-methylimidazole gave a polymer foam with bulk d. 0.0535 and start time 59 s.

IT 1122-58-3, 4-(Dimethylamino)pyridine

RL: CAT (Catalyst use); USES (Uses)

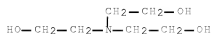
(catalyst, for the polymerization of carboxylic acids with isocyanates)

RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IT 102-71-6DP, Triethanolamine, polymers with rape-seed fatty acids  
and MDI  
RL: PEP (Physical, engineering or chemical process); PREP (Preparation);  
PROC (Process)  
(cellular, manufacture of, catalysts for)  
RN 102-71-6 HCAPLUS  
CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



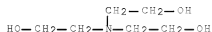
IPCI C08G0018-34 [ICM,5]; C08G0018-18 [ICS,5]; C08G0018-20 [ICS,5]; C08G0069-00 [ICS,5]; C08G0018-34 [ICI,5]; C08G0018-00 [ICI,5,C\*]; C08G0101-00 [ICI,5]  
IPCR C08G0069-00 [I,C\*]; C08G0069-00 [I,A]; C08G0018-00 [I,C\*]; C08G0018-18 [I,A]; C08G0018-20 [I,A]; C08G0018-30 [I,A]; C08G0018-34 [I,A]; C08G0018-66 [I,A]; C08G0101-00 [N,A]; C08J0005-18 [I,C\*]; C08J0005-18 [I,A]; C09D0177-00 [I,C\*]; C09D0177-00 [I,A]; C09J0177-00 [I,C\*]; C09J0177-00 [I,A]; D01F0006-58 [I,C\*]; D01F0006-70 [I,A]  
CC 37-3 (Plastics Manufacture and Processing)  
Section cross-reference(s): 67  
IT 102-82-9, Tributylamine 103-83-3, N,N-Dimethylbenzylamine 106-58-1, 1,4-Dimethylpiperazine 110-86-1, Pyridine, uses 616-47-7, 1-Methylimidazole 1122-58-3, 4-(Dimethylamino)pyridine 1704-62-7, 2-[2-(Dimethylamino)ethoxy]ethanol 2456-81-7, 4-Pyrrolidinopyridine 6425-39-4, 4,4'-(Oxydiethylene)dimorpholine  
RL: CAT (Catalyst use); USES (Uses)  
(catalyst, for the polymerization of carboxylic acids with isocyanates)  
IT 64-18-6DP, Formic acid, reaction products with polyols and MDI  
64-19-7DP, Acetic acid, reaction products with polyols and MDI  
101-68-8DP, MDI, polymers with polycarboxylic acids 102-71-6DP  
, Triethanolamine, polymers with rape-seed fatty acids and MDI  
103-71-9DP, Phenyl isocyanate, reaction products with caprylic acid and octanol 112-80-1DP, Oleic acid, reaction products with polyols and MDI  
123-96-6DP, 2-Octanol, reaction products with caprylic acid and Ph isocyanate 124-07-2DP, Caprylic acid, reaction products with octanol and Ph isocyanate 822-06-0DP, HMDI, polymers with polyols and dimer acids 25723-16-4DP, Desmophen 550U, polymers with HMDI and dimer acids 82645-68-9P 110933-45-4P 153847-12-2P  
RL: PEP (Physical, engineering or chemical process); PREP (Preparation);  
PROC (Process)  
(cellular, manufacture of, catalysts for)  
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				IFR 1289074 A	
Anon				US 3557027 A	HCAPLUS
Anon				US 3620987 A	HCAPLUS
Anon				US 4016144 A	HCAPLUS
Anon				IGB 908337 A	

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD  
(3 CITINGS)

L24 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1994:77024 HCAPLUS Full-text  
 DOCUMENT NUMBER: 120:77024  
 ORIGINAL REFERENCE NO.: 120:13849a,13852a  
 TITLE: Preparation of N-substituted m-aminophenol derivatives  
 as materials for color formers  
 INVENTOR(S): Fujii, Hiroshi; Igaki, Tetsuo; Shibasaki, Hiroaki;  
 Takahashi, Susumu  
 PATENT ASSIGNEE(S): Nippon Soda Co, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05238994	A	19930917	JP 1992-76062	19920227 <--
PRIORITY APPLN. INFO.:			JP 1992-76062	19920227 <--
OTHER SOURCE(S):			CASREACT 120:77024; MARPAT 120:77024	
AB	The title derivs. are prepared by treating amines R1NHR2 [R1, R2 = H, C1-8 alkyl or alkenyl, (un)substituted cycloalkyl; R1 = R2 ≠ H] with resorcin in the presence of Lewis acid catalysts and 2l tertiary amine cocatalysts. PrNH2 was added dropwise to a refluxing mixture of resorcin, pseudocumene, γ-picoline, and ZnCl2 over 7 h and the reaction mixture was refluxed for another 2 h to give 87% 3-N-n-propylaminophenol.			
IT	102-71-6, Triethanolamine, uses 1122-58-3, 4-Dimethylaminopyridine RL: CAT (Catalyst use); USES (Uses) (catalysts containing, for amination of resorcin)			
RN	102-71-6 HCAPLUS			
CN	Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)			



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07C0215-76 [ICM,5]; C07C0215-00 [ICM,5,C\*]; B01J0027-138 [ICS,5];  
 B01J0027-06 [ICS,5,C\*]; B01J0031-02 [ICS,5]; C07C0213-02 [ICS,5];  
 C07C0213-00 [ICS,5,C\*]; C07B0061-00 [ICA,5]  
 IPCR B01J0027-06 [I,C\*]; B01J0027-138 [I,A]; B01J0031-02 [I,C\*]; B01J0031-02  
 [I,A]; C07B0061-00 [I,C\*]; C07B0061-00 [I,A]; C07C0213-00 [I,C\*];  
 C07C0213-02 [I,A]; C07C0215-00 [I,C\*]; C07C0215-76 [I,A]  
 CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 41  
 IT 102-71-6, Triethanolamine, uses 108-89-4,  $\gamma$ -Picoline  
 1122-58-3, 4-Dimethylaminopyridine 7446-70-0, Aluminum chloride,  
 uses 7646-85-7, Zinc chloride, uses  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts containing, for amination of resorcin)

L24 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1993:642942 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:242942  
 ORIGINAL REFERENCE NO.: 119:43135a,43138a  
 TITLE: Detection of nucleic acids with immobilized  
 polynucleotide analogs and polycationic reporter  
 moieties  
 INVENTOR(S): Summerton, James; Weller, Dwight  
 PATENT ASSIGNEE(S): Anti-gene Development Group, USA  
 SOURCE: U.S., 43 pp. Cont.-in-part of U.S. Ser. No. 712,396.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 11  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5217866	A	19930608	US 1986-944707	19861218 <--
EP 639582	A2	19950222	EP 1994-116630	19860314 <--
EP 639582	A3	19950906		
EP 639582	B1	19980916		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 5142047	A	19920825	US 1987-100033	19870923 <--
US 5034506	A	19910723	US 1989-454055	19891220 <--
US 5235033	A	19930810	US 1989-454056	19891220 <--
US 5185444	A	19930209	US 1991-799681	19911121 <--
US 5521063	A	19960528	US 1993-15211	19930209 <--
US 5378841	A	19950103	US 1993-74120	19930608 <--
US 5470974	A	19951128	US 1994-202664	19940225 <--
US 5506337	A	19960409	US 1994-242159	19940511 <--
US 5698685	A	19971216	US 1995-414018	19950331 <--
PRIORITY APPLN. INFO.:			US 1985-712396	A2 19850315 <--
			US 1986-907842	A2 19860910 <--

US 1986-911258	A2 19860924 <--
EP 1986-902595	A3 19860314 <--
US 1986-944707	A2 19861218 <--
US 1987-100033	A2 19870923 <--
US 1989-454055	A2 19891220 <--
US 1989-454056	A1 19891220 <--
US 1989-454057	B1 19891220 <--
US 1991-719732	A2 19910620 <--
US 1991-799681	A1 19911121 <--
US 1992-880883	B1 19920508 <--
US 1992-979158	A1 19921128 <--
US 1992-988895	B2 19921210 <--
US 1993-15211	A2 19930209 <--
US 1994-242159	A3 19940511 <--

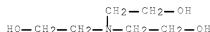
# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A fast, sensitive, single-probe method for detection of nucleic acids using a carrier-bound polynucleotide analog as probe and a reporter moiety with a polycationic tail is described. The hybridization probe is a polymer carrying purines and pyrimidines on an achiral, uncharged backbone; the backbone has no net charge and is 4-7 atoms long to give the appropriate spacing for successful base-pairing. The reporter moiety has a polycationic tail that reacts with the polyanionic backbone of the bound nucleic acid, but not with the uncharged probe. A 19-subunit carbamate-linked probe for a conserved sequence of the AIDS virus was prepared by stepwise assembly of oligonucleotide blocks using chemical of the prior art. Aminomethylated polystyrene was derivatized with succinic anhydride followed by disuccinimido carbonate and 6-aminohexanol to give a hydroxyterminated spacer that was then activated by standard methods. Internal amino groups were protected and the probe was then coupled to the carrier using an active amino group. The coupling of reporter enzymes to the polycationic reporter moiety is also described.

IT 102-71-6, Triethanolamine, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of, in preparation matrix for immobilization of oligonucleotide  
 analogs with uncharged backbones)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



IT 1122-58-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of, in preparation thiocarbamate-linked oligonucleotides)

RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



INCL 435006000  
 IPCI C12Q0001-68 [ICM,5]  
 IPCR A61K0047-48 [I,C\*]; A61K0047-48 [I,A]; C07H0021-00 [I,C\*]; C07H0021-00 [I,A]; C07K0014-00 [I,C\*]; C07K0014-00 [I,A]; C12Q0001-68 [I,C\*]; C12Q0001-68 [I,A]  
 NCL 435/006.000; 436/501.000  
 CC 3-1 (Biochemical Genetics)  
 Section cross-reference(s): 7, 9  
 IT 102-71-6, Triethanolamine, reactions 108-30-5, Succinic anhydride, reactions 556-33-2, Triglycine 7087-68-5, Diisopropylethylamine 9003-53-6D, Polystyrene, aminomethylated 9004-34-6, Cellulose, reactions 12640-54-9D, Dowex 50, pyridinium resins 16969-45-2D, Dowex 50 resins 74124-79-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of, in preparation matrix for immobilization of oligonucleotide analogs with uncharged backbones)  
 IT 1122-58-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of, in preparation thiocarbamate-linked oligonucleotides)

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				US 4166105 A	HCAPLUS
Anon				US 4362531 A	HCAPLUS
Anon				US 4395486 A	HCAPLUS
Anon				US 4430496 A	HCAPLUS
Anon				US 4469863 A	HCAPLUS
Anon				US 4486539 A	HCAPLUS
Anon				US 4507433 A	HCAPLUS
Anon				US 4558047 A	HCAPLUS
Anon				US 4749647 A	HCAPLUS
Anon				US 4757055 A	HCAPLUS
Anon				US 4775619 A	HCAPLUS
Anon				US 5034506 A	HCAPLUS
Anon				JJP 9118898 A	

OS.CITING REF COUNT: 98 THERE ARE 98 CAPLUS RECORDS THAT CITE THIS RECORD (131 CITINGS)

L24 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1993:562292 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:162292  
 ORIGINAL REFERENCE NO.: 119:29081a,29084a  
 TITLE: Surface-modified polyacrylonitrile fibrous substrates  
 INVENTOR(S): Chang, Laurence W.; Anderson, Larry S.; Ley, David A.  
 PATENT ASSIGNEE(S): American Cyanamid Co., USA  
 SOURCE: U.S., 13 pp. Cont.-in-part of U.S. Ser. No. 348,454, abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5155174	A	19921013	US 1990-552724	19900713 <--
US 5270384	A	19931214	US 1992-894988	19920608 <--
US 5284910	A	19940208	US 1992-911543	19920709 <--
US 5306782	A	19940426	US 1993-107090	19930816 <--
PRIORITY APPLN. INFO.:			US 1989-348454	B2 19890508 <--
			US 1990-552724	A3 19900713 <--
			US 1990-552742	B3 19900716 <--
			US 1992-894988	A3 19920608 <--

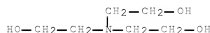
# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The products are manufactured by contacting fibrillated fibers comprising acrylonitrile or a copolymer of acrylonitrile and ≥1 comonomer with an alkaline catalyst, a peroxide, and optionally a reducing agent to convert a portion of the nitrile groups to amide groups, treating with a halogenating agent to convert a portion of the amide groups to N-haloamide groups, and treating with bioactive ligands to effect bonding of the ligand to the fibers through the N-haloamide groups. A 99:1 acrylonitrile-Me acrylate copolymer fiber was converted to a fiber containing .apprx.10% amide groups, was chlorinated, and reacted with ethylenediamine through a Hofmann rearrangement; the attachment served as a bridging group to attach bioligands.

IT 102-71-6D, Triethanolamine, reaction products with chloroamide group-containing acrylic fibers 1122-58-3D, 4-(Dimethylamino)pyridine, reaction products with modified acrylic fibers  
 RL: USES (Uses)  
 (in manufacture of bioligand-containing acrylic fibers)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



INCL 525329100

IPCI C08F0008-34 [ICM,5]; C08F0008-00 [ICM,5,C\*]

IPCR C08F0008-00 [I,C\*]; C08F0008-00 [I,A]

NCL 525/329.100; 008/115.640; 008/115.680; 008/115.690; 525/329.200; 525/329.300; 525/344.000; 525/366.000; 525/370.000; 525/374.000; 525/375.000; 525/379.000; 525/383.000; 525/386.000

CC 40-2 (Textiles and Fibers)  
 Section cross-reference(s): 9

IT 56-40-6D, Glycine, reaction products with modified acrylic fibers

56-81-5D, Glycerol, reaction products with chloroamide group-containing acrylic fibers 60-32-2D, 6-Aminocaproic acid, reaction products with modified acrylic fibers 67-56-1D, Methanol, reaction products with chloroamide group-containing acrylic fibers 77-86-1D, Tris(hydroxymethyl)aminomethane, reaction products with chloroamide group-containing acrylic fibers 100-36-7D, reaction products with modified acrylic fibers 102-71-6D, Triethanolamine, reaction products with chloroamide group-containing acrylic fibers 104-78-9D, 3-(Diethylamino)propylamine, reaction products with chloroamide group-containing acrylic fibers 107-10-8D, Propylamine, reaction products with chloroamide group-containing acrylic fibers 107-15-3D, Ethylenediamine, reaction products with chloroamide group-containing acrylic fibers 107-21-1D, Ethylene glycol, reaction products with chloroamide group-containing acrylic fibers 107-35-7D, 2-Aminoethanesulfonic acid, reaction products with modified acrylic fibers 107-95-9D,  $\beta$ -Alanine, reaction products with modified acrylic fibers 108-30-5D, Succinic anhydride, reaction products with modified acrylic fibers 109-89-7D, Diethylamine, reaction products with chloroamide group-containing acrylic fibers 111-40-0D, Diethylenetriamine, reaction products with chloroamide group-containing acrylic fibers 111-42-2D, Diethanolamine, reaction products with chloroamide group-containing acrylic fibers 111-46-6D, Diethylene glycol, reaction products with chloroamide group-containing acrylic fibers 112-27-6D, Triethylene glycol, reaction products with chloroamide group-containing acrylic fibers 124-09-4D, 1,6-Hexanediamine, reaction products with modified acrylic fibers 124-30-1D, Octadecylamine, reaction products with chloroamide group-containing acrylic fibers 141-43-5D, Ethanolamine, reaction products with chloroamide group-containing acrylic fibers 530-62-1D, reaction products with chloroamide group-containing acrylic fibers 929-59-9D, Jeffamine EDR-148, reaction products with chloroamide group-containing acrylic fibers 1071-93-8D, reaction products with modified acrylic fibers 1122-58-3D, 4-(Dimethylamino)pyridine, reaction products with modified acrylic fibers 1892-57-5D, 1-[3-(Dimethylamino)propyl]-3-ethylcarbodiimide, reaction products with modified acrylic fibers 2016-57-1D, Decylamine, reaction products with chloroamide group-containing acrylic fibers 6066-82-6D, N-Hydroxysuccinimide, reaction products with modified acrylic fibers 7693-46-1D, p-Nitrophenyl chloroformate, reaction products with modified acrylic fibers 9004-54-0D, Dextran, reaction products with chloroamide group-containing acrylic fibers 12236-82-7D, reaction products with modified acrylic fibers 58086-67-2D, reaction products with modified acrylic fibers 74124-79-1D, N,N'-Disuccinimidyl carbonate, reaction products with modified acrylic fibers

RL: USES (Uses)

(in manufacture of bioligand-containing acrylic fibers)

# RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				US 3988504 A	HCAPLUS
Anon				US 4143203 A	HCAPLUS
Anon				US 4350804 A	HCAPLUS
Anon				US 4530974 A	HCAPLUS
Anon				US 5059659 A	HCAPLUS

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
(2 CITINGS)



L24 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1993:429192 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:29192  
 ORIGINAL REFERENCE NO.: 119:5405a,5408a  
 TITLE: Preparation of reactive triazine-substituted aromatic polymers  
 INVENTOR(S): Brown, Sterling Bruce; Walles, Eric Wilhelm  
 PATENT ASSIGNEE(S): General Electric Co., USA  
 SOURCE: Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

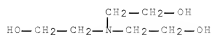
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 522767	A2	19930113	EP 1992-306008	19920630 <--
EP 522767	A3	19930512		
EP 522767	B1	19961218		
R: DE, ES, FR, GB, IT, NL				
JP 05194724	A	19930803	JP 1992-175246	19920702 <--
JP 07055982	B	19950614		
US 5264496	A	19931123	US 1992-941610	19920908 <--
			US 1991-726104	A 19910705 <--

PRIORITY APPLN. INFO.:  
 OTHER SOURCE(S): MARPAT 119:29192

AB Hydroxy group-containing aromatic polymers (I) are substituted or capped with  $\geq 1$  chlorotriazine group in presence of 2-30% (based on I) H<sub>2</sub>O, a nonpolar organic liquid, a phase-transfer catalyst, and  $\geq 1$  tertiary amine from (1) N-containing heterocyclic aromatic and bicycloaliph. amines; (2) trialkylamines; and (3) N-alkylheterocyclic amines which may contain an addnl. ring hetero atom (N or O). Thus, to 200 g poly(2,6-dimethyl-p-phenylene ether) (II) in 550 mL PhMe and 2 g methyltri(C8-10-alkyl)ammonium chloride catalyst was added Me<sub>2</sub>NBu in H<sub>2</sub>O and 2-chloro-4-(2,4,6-trimethylphenoxy)-6-glycidioxy-1,3,5-triazine (III) (in PhMe) at II-Me<sub>2</sub>NBu-III equiv ratio 1:3.0:2.04 at 70-75° under N to give, on precipitation with MeOH, a product with 76% capping (NMR).

IT 102-71-6, Triethanolamine, uses 1122-58-3, 4-Dimethylaminopyridine  
 RL: USES (Uses)  
 (in end-capping polyoxyphenylenes with chlorotriazines)

RN 102-71-6 HCAPLUS  
 CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C08G0065-48 [ICM,5]; C08G0065-00 [ICM,5,C\*]; C08F0008-30 [ICS,5];  
 C08F0008-00 [ICS,5,C\*]; C08K0005-17 [ICS,5]; C08K0005-00 [ICS,5,C\*]  
 IPCR C08F0008-00 [I,C\*]; C08F0008-30 [I,A]; C08G0065-00 [I,C\*]; C08G0065-48  
 [I,A]; C08G0085-00 [I,C\*]; C08G0085-00 [I,A]  
 CC 37-2 (Plastics Manufacture and Processing)  
 IT 75-50-3, Trimethylamine, uses 102-71-6, Triethanolamine, uses  
 102-82-9, Tributylamine 108-01-0 109-02-4, N-Methylmorpholine  
 110-86-1, Pyridine, uses 121-44-8, Triethylamine, uses 150-77-6  
 616-47-7, N-Methylimidazole 927-62-8, Butyldimethylamine  
 1122-58-3, 4-Dimethylaminopyridine 3405-45-6, Dibutylmethylamine  
 4455-26-9, Di-n-octylmethylamine 7087-68-5, Diisopropylethylamine  
 RL: USES (Uses)

(in end-capping polyoxyphenylenes with chlorotriazines)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD  
 (4 CITINGS)

L24 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:498603 HCAPLUS Full-text

DOCUMENT NUMBER: 111:98603

ORIGINAL REFERENCE NO.: 111:16599a,16602a

TITLE: Metabolically acceptable polyisocyanate adhesives and  
 their surgical uses

INVENTOR(S): Fuller, William D.; Blair, Robert K.; Goodman, Murray

PATENT ASSIGNEE(S): BioResearch, Inc., USA

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

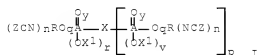
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

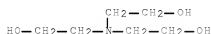
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8900589	A1	19890126	WO 1988-US2399	19880715 <--
W: AU, JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4829099	A	19890509	US 1987-74597	19870717 <--
AU 8821317	A	19890213	AU 1988-21317	19880715 <--
AU 601351	B2	19900906		
EP 328585	A1	19890823	EP 1988-906631	19880715 <--
EP 328585	B1	19940907		
R: DE, FR, GB, IT				
JP 02500815	T	19900322	JP 1988-506445	19880715 <--
ES 2018635	A6	19910416	ES 1988-2297	19880717 <--
PRIORITY APPLN. INFO.:				
			US 1987-74597	A 19870717 <--
			WO 1988-US2399	A 19880715 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

GI



- AB Title adhesives are prepared from (a) I (R = C1-10 polyvalent aliphatic radical or C6-24 polyvalent aromatic, radical; A = C, S, P; Z = O, S; y = 1 when A = C or P; y = 2 when A = S; n = 1-2; p ≥ 1; q = 0, 1 except q = 0 when A = C or S; r = 0, 1 except r = 0 when A = C or S; X = organic compound residue having terminal active H-containing groups; X1 = organic compound residue having ≥1 active H-containing group) and (b) organic compds. containing ≥2 active H atoms. Thus, bis(4-isocyanatobenzoyl)tetraethylene glycol [prepared by heating p-nitrobenzoyl chloride and tetraethylene glycol (2.1:1.0 mol ratio), reduction with H, and refluxing with phosgene in PhMe solution] was added with 2,3,5-trimethylpyrazine (0.05 mol/mol NCO groups), applied onto cellulose dialysis membrane, and cured in 100% humidity chamber to exhibit adhesive strength 2087 g/0.5 in.
- IT 102-71-6, uses and miscellaneous 1122-58-3  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, polyisocyanate-based adhesives containing, for living tissue and surgical use)
- RN 102-71-6 HCAPLUS
- CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



- RN 1122-58-3 HCAPLUS
- CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



- IPCI C08G0018-72 [ICM,4]; C08G0018-00 [ICM,4,C\*]
- IPCR A61L0026-00 [I,C\*]; A61L0026-00 [I,A]; A61L0024-00 [I,C\*]; A61L0024-04 [I,A]; C08G0018-00 [I,C\*]; C08G0018-16 [I,A]; C08G0018-18 [I,A]; C08G0018-20 [I,A]; C08G0018-77 [I,A]; C09J0175-00 [I,C\*]; C09J0175-00 [I,A]

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 63

IT 77-58-7 91-63-4, Quinaldine 93-60-7, Methyl nicotinate 100-55-0,  
 3-Pyridyl carbinol 102-71-6, uses and miscellaneous 108-01-0  
 108-75-8, 2,4,6-Collidine 109-02-4, N-Methylmorpholine 110-86-1,  
 Pyridine, uses and miscellaneous 120-85-4, 1,2,4-Trimethylpiperazine  
 121-44-8, uses and miscellaneous 289-80-5, Pyridazine 289-95-2,  
 Pyrimidine 301-10-0 614-18-6, Ethyl nicotinate 1067-33-0,  
 Dibutyltin diacetate 1122-58-3 3978-81-2,  
 4-tert-Butylpyridine 5166-67-6, Ethyl 1-methylnipecotate 5966-51-8  
 6164-79-0, Methyl 2-pyrazine carboxylate 7375-15-7 14667-55-1,  
 2,3,5-Trimethylpyrazine 26444-72-4, Tris(dimethylaminomethyl)phenol  
 39931-77-6, Ethyl 3-pyridylacetate  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, polyisocyanate-based adhesives containing, for living tissue  
 and surgical use)

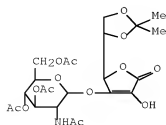
## RETABLE

Referenced Author (RAU)	Year     (RPY)	VOL     (RVL)	PG     (RPG)	Referenced Work   (RWK)	Referenced   File
Anon				US 3437680 A	HCAPLUS
OS.CITING REF COUNT:	7	THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)			

L24 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1988:205021 HCAPLUS Full-text  
 DOCUMENT NUMBER: 108:205021  
 ORIGINAL REFERENCE NO.: 108:33705a,33708a  
 TITLE: Preparation of ascorbic acid derivative  
 INVENTOR(S): Myamoto, Takuji; Kawanaka, Hajime  
 PATENT ASSIGNEE(S): Ryuhodo Seiyaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62033195	A	19870213	JP 1985-172166	19850805 <--
PRIORITY APPLN. INFO.:			JP 1985-172166	19850805 <--

GI



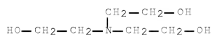
I

AB The title derivative (I), stable to heat, light, enzymes, metal ions, and pH change, was prepared by treating 5,6-O-isopropylidene-L-ascorbic acid (II) with tetraacetylglucosaminyl chloride in organic solvents in the presence of organic bases. Thus, treating II with 3,4,6-tri-O-acetyl-2-acetamido-2-deoxy-β-D-glucopyranosyl chloride in 1-propanol in the presence of 1,8-diazabicyclo[5.4.0]undec-7-ene at room temperature for 1 h gave 43% I.

IT 102-71-6, Triethanolamine, uses and miscellaneous  
 1122-58-3, 4-(Dimethylamino)pyridine  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalyst, for glycosidation of isopropylideneascorbic acid with peracetylglucosaminyl chloride)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07H0017-04 [ICM,4]; C07H0017-00 [ICM,4,C\*]; A61K0007-00 [ICA,4]  
 IPCR C07H0017-00 [I,C\*]; C07H0017-04 [I,A]; A61K0008-30 [I,C\*]; A61K0008-60 [I,A]; A61K0008-67 [I,A]; A61Q0019-00 [I,C\*]; A61Q0019-00 [I,A]  
 CC 33-8 (Carbohydrates)

IT 102-71-6, Triethanolamine, uses and miscellaneous 108-91-8, Cyclohexylamine, uses and miscellaneous 110-86-1, Pyridine, uses and miscellaneous 121-44-8, Triethylamine, uses and miscellaneous 1122-58-3, 4-(Dimethylamino)pyridine  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalyst, for glycosidation of isopropylideneascorbic acid with peracetylglucosaminyl chloride)

L24 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1987:424285 HCAPLUS Full-text

DOCUMENT NUMBER: 107:24285

ORIGINAL REFERENCE NO.: 107:4114h,4115a

TITLE: Benzoin derivative preparation for photocurable compositions

INVENTOR(S): Trieschmann, Christa; Mueller, Johann; Doskocil,

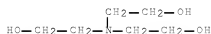
PATENT ASSIGNEE(S): Walter; Tosch, Pius  
 SOURCE: Wacker-Chemie G.m.b.H., Fed. Rep. Ger.  
 Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3532250	A1	19870319	DE 1985-3532250	19850910 <--
EP 214665	A2	19870318	EP 1986-112561	19860910 <--
EP 214665	A3	19870930		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 62067093	A	19870326	JP 1986-211829	19860910 <--
JP 62068801	A	19870328	JP 1986-211828	19860910 <--
PRIORITY APPLN. INFO.:			DE 1985-3532250	A 19850910 <--

AB The title derivs., effective in either UV or halogen light to depths of  $\geq 3$  mm, are prepared by the reaction of benzoin, or its derivs. retaining free OH groups, with tertiary amines and the compns. to be photocured. Refluxing benzoin 21.2, triethanolamine 14.9, and PhMe 100 g for 2 h gave a crystalline, yellowish product (I). A mixture of 23.5% acid-catalyzed reaction product of 1240 g (trimethoxysilyl)propyl methacrylate and 108 g (Me<sub>3</sub>Si)<sub>2</sub>O, 5% I, 4.6% triethylene glycol dimethacrylate, 3.4% pyrolytic SiO<sub>2</sub>, and 63.5% quartz fluor was placed in a cylindrical mold (diameter 3 mm) and exposed for .apprx.30 s to a UV or halogen lamp, curing to a depth of 3.4 and 3.3 mm, resp.

IT 102-71-6D, Triethanolamine, reaction products with benzoin derivs. 1122-58-3D, 4-(Dimethylamino)pyridine, reaction products with benzoin derivs.  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, for photochem. crosslinking of plastics)

RN 102-71-6 HCAPLUS  
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07G0017-00 [ICM,4]; C07F0007-18 [ICS,4]; C07F0007-00 [ICS,4,C\*];  
 C08F0002-50 [ICS,4]; C08F0002-46 [ICS,4,C\*]

IPCR C07F0007-00 [I,C\*]; C07F0007-18 [I,A]; C08F0002-00 [I,C\*]; C08F0002-00 [I,A]; C08F0002-46 [I,C\*]; C08F0002-50 [I,A]; G03F0007-031 [I,A]; G03F0007-031 [I,A]

CC 37-6 (Plastics Manufacture and Processing)  
Section cross-reference(s): 25

IT 98-94-2D, N,N-Dimethylcyclohexylamine, reaction products with benzoin derivs. 102-71-6D, Triethanolamine, reaction products with benzoin derivs. 119-53-9D, Benzoin, reaction products with tertiary amines 1122-58-3D, 4-(Dimethylamino)pyridine, reaction products with benzoin derivs. 92177-27-0D, reaction products with tertiary amines

RL: CAT (Catalyst use); USES (Uses)  
(catalysts, for photochem. crosslinking of plastics)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(1 CITINGS)

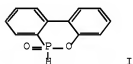
L24 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1985:624452 HCAPLUS Full-text  
DOCUMENT NUMBER: 103:224452  
ORIGINAL REFERENCE NO.: 103:36025a,36028a  
TITLE: Photochromic substances  
PATENT ASSIGNEE(S): Pilot Pen Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60086540	A	19850516	JP 1983-193540	19831018 <--

PRIORITY APPLN. INFO.: JP 1983-193540 19831018 <--  
GI

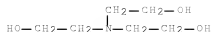


AB Photochromic compns. contain leuco dye, a photoredox system, and alc. type OH group-containing compound and/or N-containing base. The photochromic compns. exhibit good storage stability and durability (under repeated uses). Thus, Crystal Violet lactone 1, I 5, and trioctylamine 3 parts were kneaded and formed into a photochromic sheet (colorless) which became dark blue upon light exposure.

IT 102-71-6, properties  
RL: PRP (Properties)  
(photochromic substances containing leuco dye and photoredox compound and)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



IT 1122-58-3  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (photochromic substances containing leuco dye and photoredox compound and)  
 RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI G03C0001-733 [ICM,4]; G02F0001-17 [ICS,4]; G02F0001-01 [ICS,4,C\*];  
 G02B0005-23 [ICA,4]; G02B0005-22 [ICA,4,C\*]  
 IPCR G02B0005-22 [I,C\*]; G02B0005-23 [I,A]; G02F0001-01 [I,C\*]; G02F0001-17  
 [I,A]; G03C0001-73 [I,C\*]; G03C0001-73 [I,A]  
 CC 74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 IT 56-81-5, properties 60-12-8 95-54-5, properties 98-00-0 100-51-6,  
 properties 102-71-6, properties 108-93-0, uses and  
 miscellaneous 110-91-8D, Mannich reaction products with  
 tert-butylcatechol 112-30-1 112-53-8 112-92-5  
 RL: PRP (Properties)  
 (photochromic substances containing leuco dye and photoredox compound and)  
 IT 143-28-2 620-40-6 1116-76-3 1122-58-3 1338-41-6  
 2016-42-4 2190-04-7 9002-98-6 9003-11-6 11128-96-4 12642-13-6  
 25119-82-8 25322-68-3 25322-69-4 25791-96-2 26222-42-4  
 26266-57-9 27213-78-1D, Mannich reaction products with morpholine  
 36653-82-4 52625-13-5 82682-24-4 98507-52-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (photochromic substances containing leuco dye and photoredox compound and)

L24 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1985:199405 HCAPLUS Full-text  
 DOCUMENT NUMBER: 102:199405  
 ORIGINAL REFERENCE NO.: 102:31187a,31190a  
 TITLE: Reagents, test kits and methods for the detection of  
 cannabinoids  
 INVENTOR(S): Spiro, Baruch  
 PATENT ASSIGNEE(S): Erez Forensic Technology Ltd., Israel  
 SOURCE: Eur. Pat. Appl., 25 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 132313	A2	19850130	EP 1984-304306	19840626 <--
EP 132313	A3	19860604		
EP 132313	B1	19910918		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
IL 69075	A	19871231	IL 1983-69075	19830627 <--
IL 69316	A	19871231	IL 1983-69316	19830725 <--
US 4771005	A	19880913	US 1984-619901	19840612 <--
AT 67604	T	19911015	AT 1984-304306	19840626 <--
PRIORITY APPLN. INFO.:				
			IL 1983-69075	A 19830627 <--
			IL 1983-69316	A 19830725 <--
			EP 1984-304306	A 19840626 <--

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 102:199405

AB Prepackaged test kits for the detection of cannabinoids comprise an organic solvent and a diazonium salt which undergoes a characteristic color change when combined with a cannabinoid under basic conditions. The diazonium cation is selected from the group consisting of Fast Blue BB diazonium cation, Fast Red diazonium cation, Fast Garnet GBO, etc., and the anion preferably is perchlorate, an aryl sulfonate, etc. The organic solvent is selected from a group consisting of CH<sub>2</sub>Cl<sub>2</sub> [75-09-2], CHCl<sub>3</sub> [67-66-3], etc. The reagent may be dispensed in an aerosol container or dispenser in combination with a propellant. Thus, yellow picrate [96382-81-9] of Fast Blue BB is prepared by dissolving its 2.4 mmol chloride [119-99-3] in 30 mL water at 0° and adding 2.4 mmol picric acid [88-89-1] in a little water all at once. The yellow solid (0.5%) is dissolved in CH<sub>2</sub>Cl<sub>2</sub>; triethanolamine [102-71-6] is dissolved in 1% EtOH [64-17-5] and both picrate and the developer reagent are placed in sep. aerosol containers. The suspected materials are sprayed after silica or alumina TLC in 85:15 CHCl<sub>3</sub>-petroleum ether. Cannabidiol [13956-29-1], Δ<sup>9</sup>-THC [1972-08-3], and cannabinol [521-35-7] give orange, scarlet, and violet colors, resp.

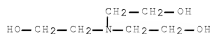
IT 102-71-6, biological studies 1122-58-3

RL: BIOL (Biological study)

(in prepackaged kit as organic base, for cannabinoid detection, forensic)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)

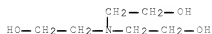


RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI G01N0031-22 [ICM,4]; C07C0113-04 [ICS,4]  
 IPCR C09B0067-00 [I,C\*]; C09B0067-36 [I,A]; G01N0033-94 [I,C\*]; G01N0033-94 [I,A]  
 CC 4-2 (Toxicology)  
 Section cross-reference(s): 1  
 IT 192-71-6, biological studies 108-75-8 110-89-4, biological studies 1122-58-3 5683-33-0 13450-67-4  
 RL: BIOL (Biological study)  
 (in prepackaged kit as organic base, for cannabinoid detection, forensic)  
 OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)  
 L24 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1984:5441 HCAPLUS Full-text  
 DOCUMENT NUMBER: 100:5441  
 ORIGINAL REFERENCE NO.: 100:931a,934a  
 TITLE: Influence of heteroaromatic amines on Knoevenagel condensation  
 AUTHOR(S): Yamanaka, Hiroshi; Yokoyama, Masaaki; Sakamoto, Takao; Shiraishi, Takayuki; Sagi, Mataichi; Mizugaki, Michinao  
 CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SOURCE: Heterocycles (1983), 20(8), 1541-4  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 100:5441  
 AB In the Knoevenagel condensation of hexanal and malonic acid, the ratio of  $\alpha,\beta$ - and  $\beta,\gamma$ -unsatd. acids was remarkably affected by the nature of tertiary amines used as catalysts. E.g., the condensation in pyridine or isoquinoline gave 2-octenoic acid selectively, whereas the condensation in 2-methylpyridine, 2,6-dimethylpyridine, or quinoline gave 3-octenoic acid as a main product.  
 IT 102-71-6, uses and miscellaneous 1122-58-3  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, for Knoevenagel condensation)  
 RN 102-71-6 HCAPLUS  
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS  
 CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 22-4 (Physical Organic Chemistry)  
 IT 91-22-5, uses and miscellaneous 102-71-6, uses and  
 miscellaneous 108-48-5 108-89-4 108-99-6 109-06-8 110-86-1, uses  
 and miscellaneous 119-65-3 121-44-8, uses and miscellaneous  
 121-69-7, uses and miscellaneous 280-57-9 766-09-6 1122-58-3  
 6674-22-2

RL: CAT (Catalyst use); USES (Uses)

(catalysts, for Knoevenagel condensation)

OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS  
 RECORD (17 CITINGS)

L24 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1982:105293 HCAPLUS Full-text

DOCUMENT NUMBER: 96:105293

ORIGINAL REFERENCE NO.: 96:17315a,17318a

TITLE: Promoting the low temperature cure of polyester resins

INVENTOR(S): Jefferson, Donald E.; Coe, Charles G.; Beitchman,

Burton D.; Uffner, Melville W.

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

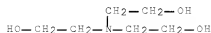
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4309511	A	19820105	US 1979-45446	19790604 <--
PRIORITY APPLN. INFO.:			US 1979-45446	19790604 <--
AB A 3-component promoter for enhancing the curing of unsatd. polyester compns. comprises a Co2+ salt, a Cu2+ salt, and a tertiary amine. Thus, Paraplex P 43 [63798-89-0] 100, Co(OAc)2 1.0, CuCl2 0.5, 1-phenylpiperazine [92-54-6] 0.27, and MeEtCO peroxide 2.0 g were mixed to give a composition having gel time 3 min 36 s, cure time 6 min 6 s, tack free time 8 min, and time to Barcol hardness 40 37 min. Shelf life without the peroxide catalyst was >30 days compared with <36 h for a dimethylaniline promoted resin.				
IT 102-71-6, uses and miscellaneous 1122-58-3				
RL: USES (Uses)				
(catalyst compns. containing, for low temperature curing unsatd. polyesters)				
RN 102-71-6 HCAPLUS				
CN Ethanol, 2,2',2''-nitritoltris- (CA INDEX NAME)				



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



INCL 525014000  
 IPCI B01J0031-02 [ICM]; B01J0031-12 [ICS]; C03L0067-00 [ICS]  
 IPCR B01J0031-02 [I,C\*]; B01J0031-02 [I,A]; B01J0031-04 [I,C\*]; B01J0031-04 [I,A]; B01J0031-26 [I,C\*]; B01J0031-30 [I,A]; C08F0299-00 [I,C\*]; C08F0299-04 [I,A]  
 NCL 525/014.000; 502/165.000; 525/017.000; 525/026.000  
 CC 37-6 (Plastics Manufacture and Processing)  
 IT 71-48-7 90-94-8 92-53-5 92-54-6 102-71-6, uses and miscellaneous 110-85-0, uses and miscellaneous 110-86-1, uses and miscellaneous 121-44-8, uses and miscellaneous 121-69-7, uses and miscellaneous 136-52-7 280-57-9 1122-58-3 2867-47-2 3001-72-7 7447-39-4, uses and miscellaneous 26444-72-4 28109-57-1  
 RL: USES (Uses)  
 (catalyst compns. containing, for low temperature curing unsatd. polyesters)

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				[US 2642410 A	HCAPLUS
Anon				[US 2647878 A	HCAPLUS
Anon				[US 3091936 A	HCAPLUS
Anon				[US 3449276 A	HCAPLUS
Anon				[US 4048086 A	HCAPLUS

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD  
 (3 CITINGS)

L24 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1982:19959 HCAPLUS Full-text  
 DOCUMENT NUMBER: 96:19959  
 ORIGINAL REFERENCE NO.: 96:3319a,3322a  
 TITLE: Substituted acetic acid hydrazides  
 INVENTOR(S): Orth, Winfried; Lange, Fritz Walter; Fickert, Werner  
 PATENT ASSIGNEE(S): Ruetgerswerke A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 11 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

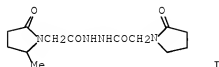
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3006806	A1	19810910	DE 1980-3006806	19800223 <--
EP 34665	A1	19810902	EP 1980-200280	19800327 <--
EP 34665	B1	19830928		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AT 4803	T	19831015	AT 1980-200280	19800327 <--
CA 1132568	A1	19820928	CA 1981-367881	19810105 <--

US 4357277	A	19821102	US 1981-224128	19810112 <--
JP 56133263	A	19811019	JP 1981-24403	19810223 <--
PRIORITY APPLN. INFO.:			DE 1980-3006806	A 19800223 <--
			EP 1980-200280	A 19800327 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 96:19959

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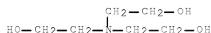


AB RCHR2(CH2)nCONHNHCO(CH2)mCHR3R1 [R, R1 = (un)substituted 2-oxo-1-pyrrolidino or -piperidino; R2, R3 = H, C1-4 alkyl] were prepared by treating the corresponding hydrazide with a Me ester in the presence of catalytic amine. Thus, stirring 1/1 g 5-methyl-2-oxo-1-pyrrolidineacetic acid hydrazide, 15/ g Me 2-oxo-1-pyrrolidineacetate, and 8 g Me2NCH2CH2OH 24 h at 130° gave 53% I.

IT 102-71-6, uses and miscellaneous 1122-58-3  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, for reaction of Me esters with hydrazides)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



IPCI C07D0227-08 [ICM]; C07D0227-00 [ICM,C\*]

IPCR A61K0031-40 [I,C\*]; A61K0031-40 [I,A]; A61K0031-4015 [I,C\*]; A61K0031-4015 [I,A]; A61P0025-00 [I,C\*]; A61P0025-18 [I,A]; C07D0207-00 [I,C\*]; C07D0207-26 [N,A]; C07D0207-27 [I,A]

CC 27-10 (Heterocyclic Compounds (One Hetero Atom))

IT 91-21-4 96-80-0 100-37-8 100-60-7 100-85-6 102-71-6,  
 uses and miscellaneous 103-76-4 103-83-3 105-59-9 108-01-0

109-01-3 109-02-4 110-18-9 110-85-0, uses and miscellaneous  
 110-89-4, uses and miscellaneous 110-91-8, uses and miscellaneous  
 111-42-2, uses and miscellaneous 120-94-5 123-75-1, uses and  
 miscellaneous 299-42-3 504-24-5 616-47-7 622-40-2 626-67-5  
 693-98-1 1122-58-3 1836-42-6 2456-81-7 2955-88-6  
 3030-47-5 3040-44-6 4238-71-5 4402-32-8 29450-09-7 34844-87-6  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts, for reaction of Me esters with hydrazides)

L24 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1979:91154 HCAPLUS Full-text

DOCUMENT NUMBER: 90:91154

ORIGINAL REFERENCE NO.: 90:14399a,14402a

TITLE: Corrosion inhibitors 23 (1). Does there exist a structure-efficiency relation in the organic inhibitors of aluminum corrosion?

AUTHOR(S): Horner, L.; Meisel, K.

CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, Fed. Rep. Ger.

SOURCE: Werkstoffe und Korrosion (1978), 29(10), 654-64

CODEN: WSKRAT; ISSN: 0043-2822

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The inhibitive effect of >400 compds. (10-2 mol/L) was studied on the corrosion of Al in 1N HCl-2.5% NaCl. The tested compds. included aromatic aldehydes and ketones, aromatic and aliphatic carboxylic acids, sulfonamides and sulfones, dibasic phenols, tetrazolium salts, formazan compds., sulfoxides, and aromatic sulfonic acids. The highest corrosion inhibitive effect was shown by Cupferron. Compds. inhibiting the corrosion of Al are more effective in the inhibition of the corrosion of Zn. The inhibitive effect is largely affected by the nature and spatial location of the functional groups in the mol. of the inhibitor.

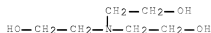
IT 102-71-6, uses and miscellaneous 1122-58-3

RL: USES (Uses)

(corrosion inhibitors, for aluminum in hydrochloric acid)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)



CC 56-8 (Nonferrous Metals and Alloys)  
 IT 50-99-7, uses and miscellaneous 55-21-0 56-40-6, uses and  
 miscellaneous 56-41-7, uses and miscellaneous 56-86-0, uses and  
 miscellaneous 57-10-3, uses and miscellaneous 57-11-4, uses and  
 miscellaneous 59-23-4, uses and miscellaneous 59-67-6, uses and  
 miscellaneous 60-09-3 62-44-2 63-42-3 65-85-0, uses and  
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 and miscellaneous 76-84-6 77-09-8 79-11-8, uses and miscellaneous  
 79-92-5 80-07-9 81-07-2 81-25-4 83-32-9 83-33-0 84-11-7  
 84-65-1 85-01-8, uses and miscellaneous 85-41-6 85-44-9 86-73-7  
 86-74-8 87-69-4, uses and miscellaneous 87-78-5 88-13-1 88-99-3,  
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 90-05-1 90-30-2 90-64-2 91-20-3, uses and miscellaneous 91-56-5  
 91-64-5 92-27-3 92-52-4, uses and miscellaneous 92-70-6 93-04-9  
 93-09-4 95-63-6 95-64-7 97-65-4, uses and miscellaneous 98-10-2  
 98-11-3, uses and miscellaneous 98-86-2, uses and miscellaneous  
 98-89-5 98-98-6 99-61-6 99-96-7, uses and miscellaneous 99-99-0  
 100-01-6, uses and miscellaneous 100-02-7, uses and miscellaneous  
 100-09-4 100-16-3 100-17-4 100-52-7, uses and miscellaneous  
 100-83-4 102-04-5 102-09-0 102-71-6, uses and  
 miscellaneous 103-33-3 103-70-8 103-82-2, uses and miscellaneous  
 103-84-4 104-15-4, uses and miscellaneous 104-88-1, uses and  
 miscellaneous 104-94-9 105-60-2, uses and miscellaneous 106-34-3  
 106-40-1 106-46-7 106-47-8, uses and miscellaneous 106-49-0, uses  
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 miscellaneous 108-95-2, uses and miscellaneous 109-77-3 110-16-7,  
 uses and miscellaneous 110-17-8, uses and miscellaneous 110-44-1  
 110-91-8, uses and miscellaneous 110-94-1 111-20-6, uses and  
 miscellaneous 112-72-1 112-79-8 115-77-5, uses and miscellaneous  
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5341-95-7 5391-92-4 5392-12-1 5445-51-2 5720-05-8 5768-48-9

RL: USES (Uses)

(corrosion inhibitors, for aluminum in hydrochloric acid)

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD  
(7 CITINGS)

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ACCESSION NUMBER: 19/9:39250 HCAPLUS Full-text

DOCUMENT NUMBER: 90:39250

ORIGINAL REFERENCE NO.: 90:6339a,6342a

TITLE: Side reactions in peptide synthesis. VI. A  
reexamination of the benzyl group in the protection of  
the side chains of tyrosine and aspartic acid  
AUTHOR(S): Bodanszky, Miklos; Tolle, John C.; Deshmane, Sharad  
S.; Bodanszky, AgnesCORPORATE SOURCE: Dep. Chem., Case Western Reserve Univ., Cleveland, OH,  
USA

SOURCE: International Journal of Peptide &amp; Protein Research ( 1978), 12(2), 57-88

CODEN: IJPPC3; ISSN: 0367-8377

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The acid-catalyzed O → 3C migration of the benzyl group in O-benzyltyrosine derivs. was suppressed by acidolysis with HBr in phenol/p-cresol or with CF<sub>3</sub>CO<sub>2</sub>H/HOAc (7:3). The acid-catalyzed cyclization of β-benzyl aspartate peptides to aminosuccinyl derivs. was reduced significantly by acidolysis with HBr in CF<sub>3</sub>CO<sub>2</sub>H. Acidolysis by HBr in CF<sub>3</sub>CO<sub>2</sub>H/p-cresol can be applied to peptides containing both O-benzyl tyrosine and β-benzyl aspartate residues since only traces of the undesired side reactions were observed. An attempt to reduce the rate of base-catalyzed cyclization of β-benzyl aspartate peptides by use of hindered tertiary amines was abandoned because these amines led to significant reduction of the rate of the desired reaction.

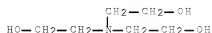
IT 102-71-6, reactions 1122-58-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(β-benzyl aspartate peptide cyclization to aminosuccinyl derivative in relation to)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



RN 1122-58-3 HCAPLUS

CN 4-Pyridinamine, N,N-dimethyl- (CA INDEX NAME)





CC 34-3 (Synthesis of Amino Acids, Peptides, and Proteins)

IT 102-05-6 102-71-6, reactions 121-44-8, reactions 479-27-6  
620-40-6 1122-58-3 2592-95-2 7087-68-5

RL: RCT (Reactant); RACT (Reactant or reagent)

( $\beta$ -benzyl aspartate peptide cyclization to aminosuccinyl derivative in relation to)

OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS  
RECORD (18 CITINGS)